

*California Department of Transportation
Division of Maintenance*

Structure Maintenance and Investigations

B_{RIDGE}

I_{NSPECTION}

R_{ECORDS}

I_{NFORMATION}

S_{YSTEM}

The requested documents have been generated by BIRIS.

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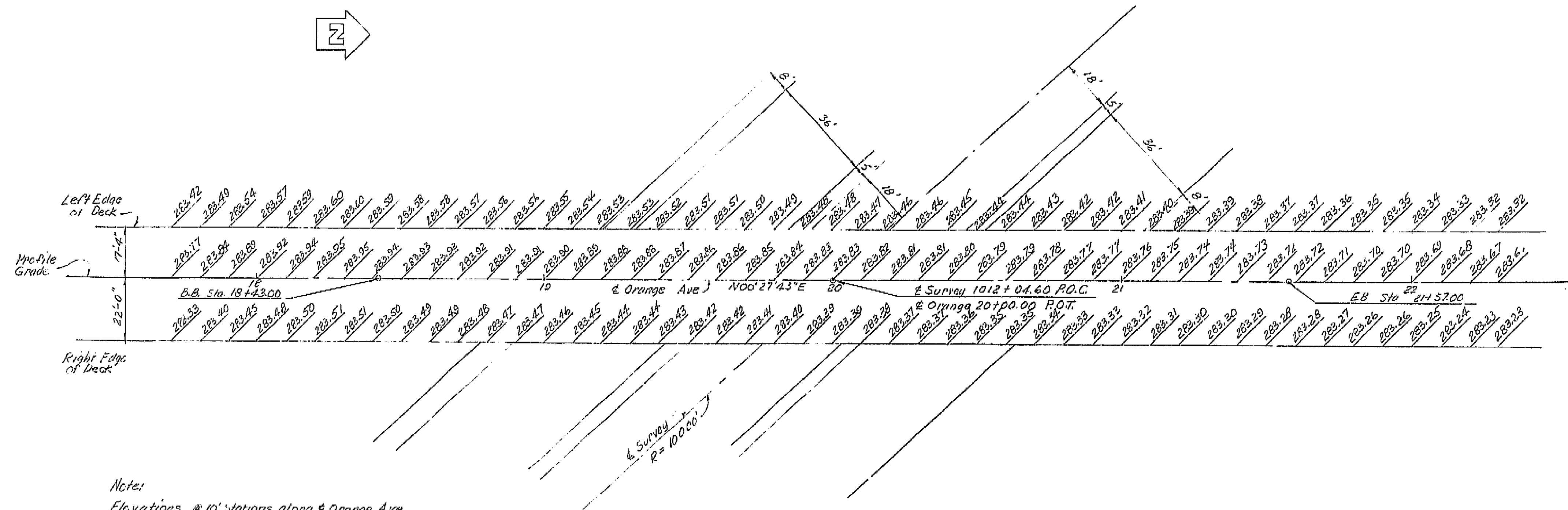
VI FRI 99

U-005-2(5)
F-005-2(5)

FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		22	424

DIST.	COUNTY	ROUTE	SECTION	SHEET	TOTAL
7	7	7	7	22	424

DATE APPROVED August 28, 1961



Note:
Elevations @ 10' stations along E Orange Ave
These elevations do not include camber

AS BUILT PLANS
Contract No. 62-6713C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT	
DESIGN SECTION	
Project Designer: [Signature]	
Chief Designer: [Signature]	
DESIGN	By [Signature] 8/60
DETAILS	By [Signature] 8/60
QUANTITIES	By [Signature] 8/60
SPECIFICATIONS	By [Signature] 8/60

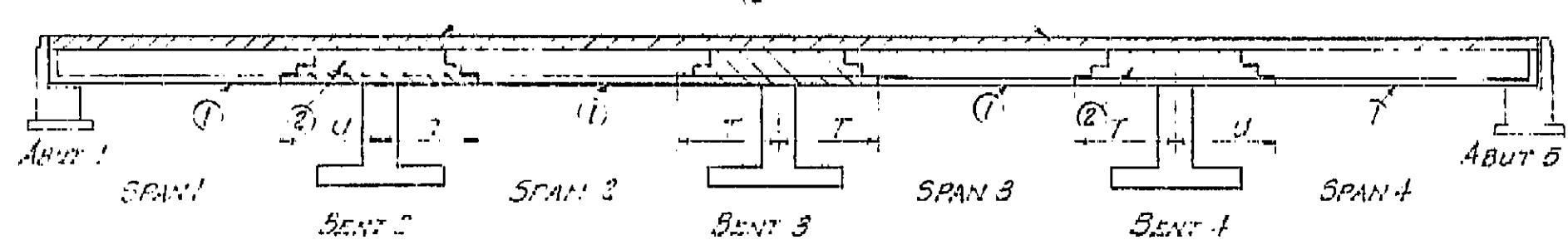
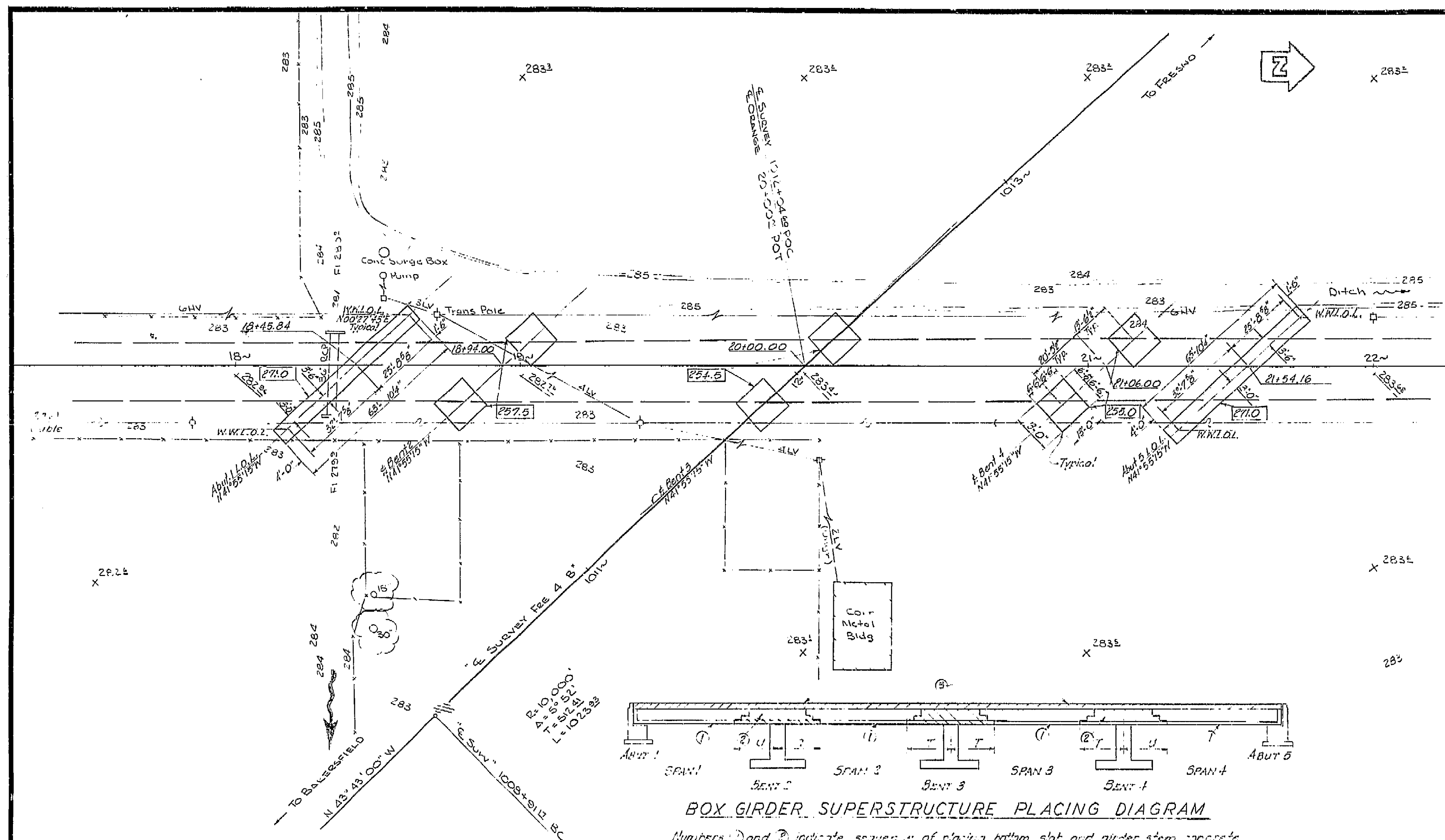
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
ORANGE AVENUE OVERCROSSING	
GRID OF DECK ELEVATIONS	
SCALE 1"=20'	BRIDGE 42-211
FILE	DRAWING C-6738-2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-12-62 SIGNATURE [Signature] TITLE [Title]

VI Fre 99		4006-2(6) 4006-2(3)	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			7	CALIF.			222	424

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED: August 29, 1951



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers ① and ② indicate sequence of placing bottom slab and girder stem concrete. ② may be placed simultaneously with Deck approved by the Engineer, and provided that the ① sections are placed in spanning spans. Top slab concrete ③ shall be placed by alternate from ① and ②. ③ may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 6'-0" of the center joints between ① and ②. T = 6 span length. 11-4 span length. For any deviation from the above the Contractor shall submit a diagram to the Engineer.

GENERAL NOTES

- Specifications:** Design: AASHO dated 1951 with revisions and as supplemented by Bridge Planning and Design Manual.
- Construction:** Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.
- Live Loadings:** H20-S16-S4 and Alternative
- Unit Stresses:** Reinforced Concrete: $f_c = 20,000 \text{ psi}$ $f_s = 18,000 \text{ psi}$ $N = 10$
- Facing Pressure:** 2 tons p.s.f. @ Bents 2 tons p.s.f. @ Abutts.

ALL DIMENSIONS HAVE BEEN CORRECTED TO THE "AS BUILT" FIELD CONDITIONS AS SUBMITTED BY RESIDENT ENGINEER DATE: _____

Note: 0000 Denotes bottom of footing elevation.

AS BUILT PLANS
Contract No. 62-6713C3
Date Completed _____
Document No. 60001062

REA 101.2
1st & 2nd corners of 20' x 20' ft
to Orange 12-12
EL 282.11

REA 4
1st & 2nd corners of 17' x 17' ft
to Orange 12-12
EL 282.11

LEVEL DATUM: J.S. 5.65
FOR ALIGNMENT THIS SEE 302-13B-5
CONTOURS AS OF 10-53
SITE PLAN TO SUPPLEMENT DISTRICT DATA
SURVEY BY J.S. DATE 10-53
DRAWN BY J.S. DATE 10-53
TRACED BY J.S. DATE 10-53

BRIDGE DEPARTMENT		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN SECTION		ORANGE AVENUE OVERCROSSING	
Project Designer: <u>L.D. Ricci</u>		FOUNDATION PLAN	
Chief Designer: <u>L.D. Ricci</u>		SCALE 1" = 20'	
DESIGN	Checked: <u>L.D. Ricci</u>	BRIDGE 42-211	FILE: 42
DETAILS	Checked: <u>L.D. Ricci</u>	DRAWING	6-6713-3
QUANTITIES	Checked: <u>L.D. Ricci</u>		
SPECIFICATIONS	Checked: <u>L.D. Ricci</u>		
Approval Recommended by: <u>L.D. Ricci</u>			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-10-72 SIGNATURE William C. Smith TITLE SR RMO

AS BUILT PLANS
Contract No. 62-6713C3
Date Completed
Document No. 60001062

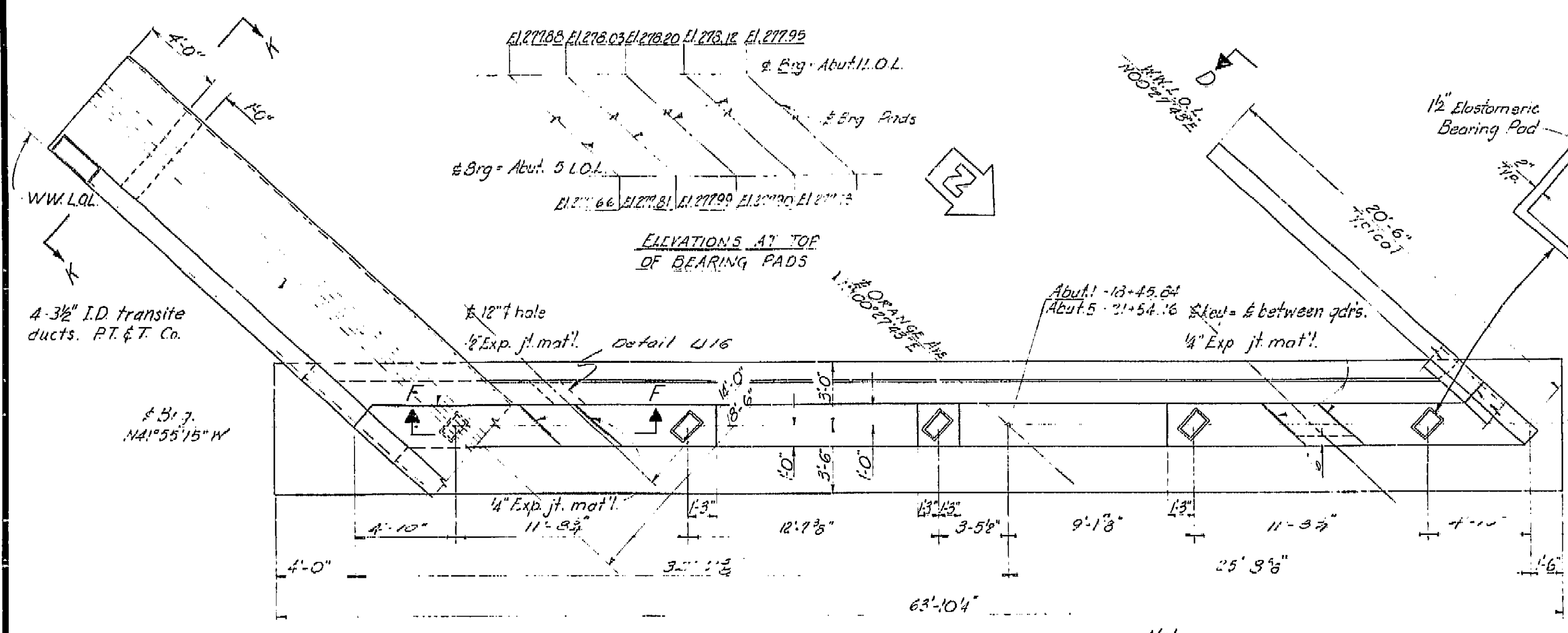
223

VJ	Frc	99
U-006-2(6)	F-006-2(6)	

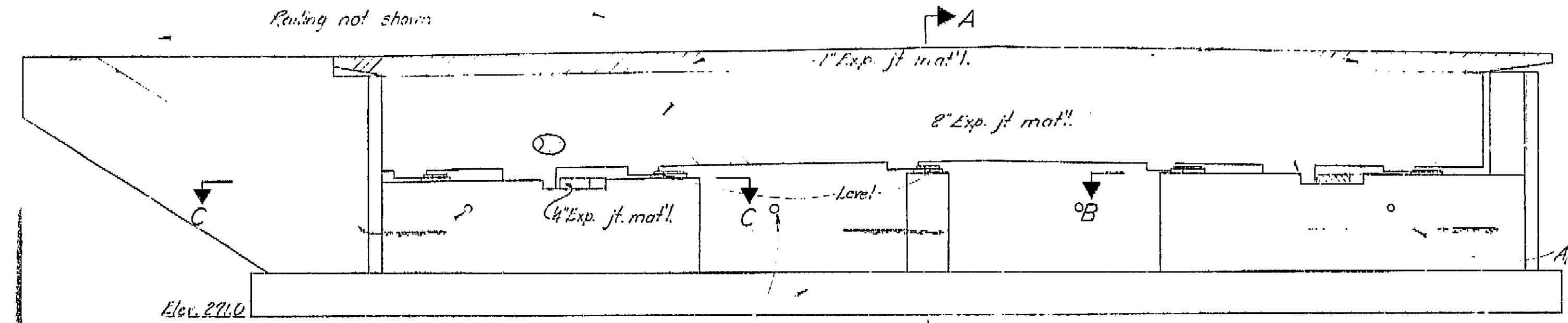
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			223	234

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Elgin			4	4

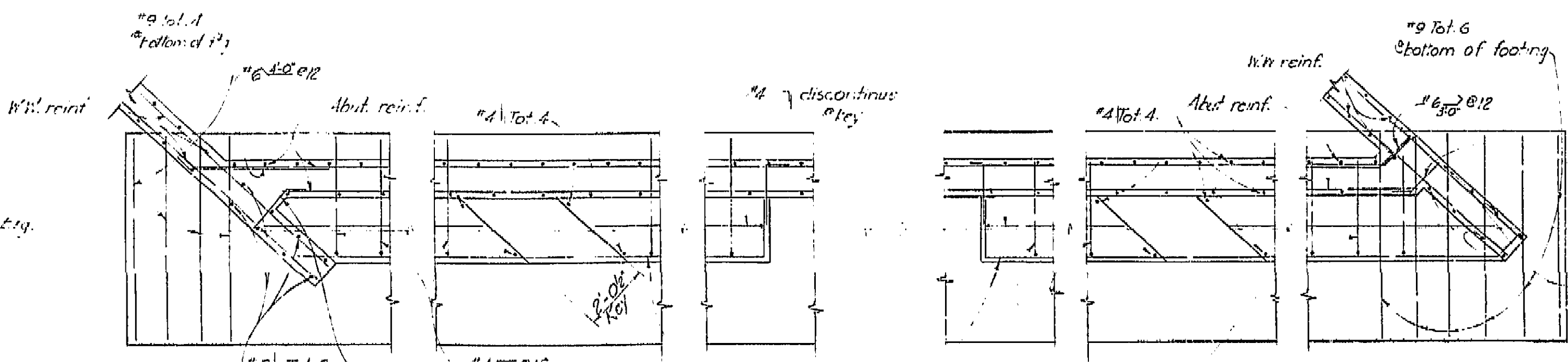
DATE APPROVED August 28, 1961



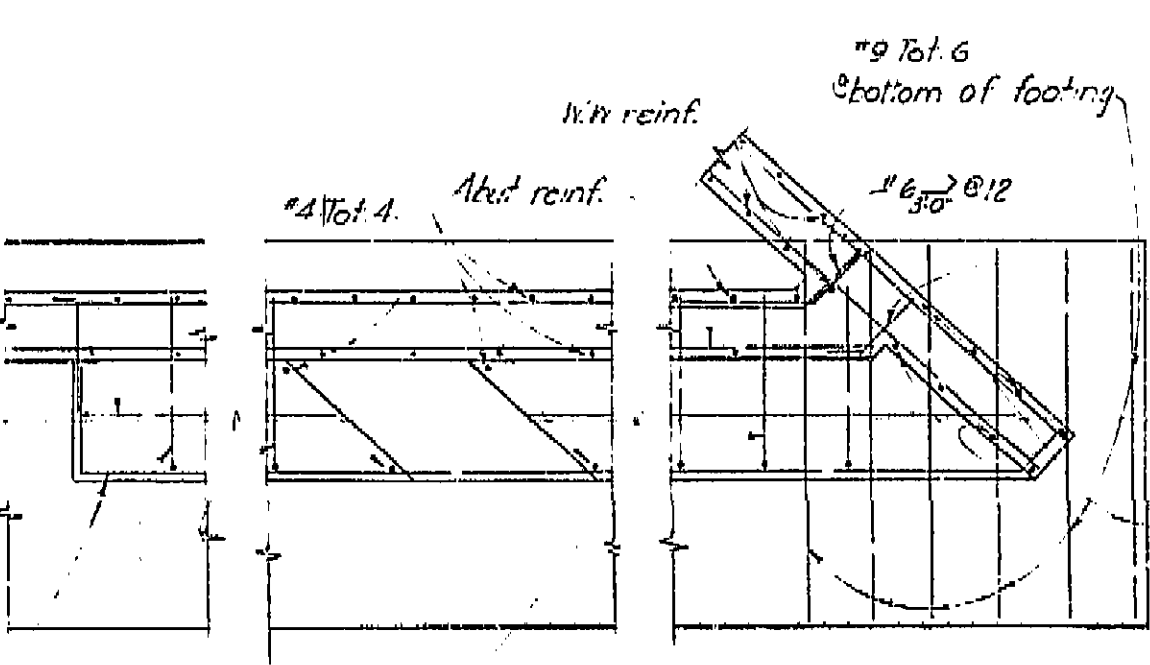
PLAN
1/4" = 1'-0"



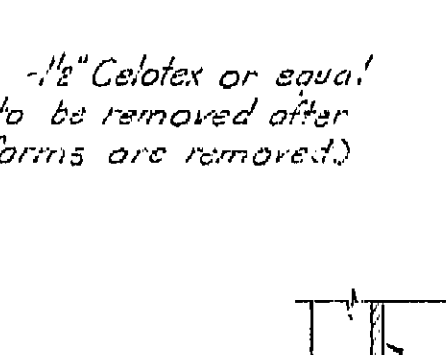
ELEVATION
1/4" = 1'-0"



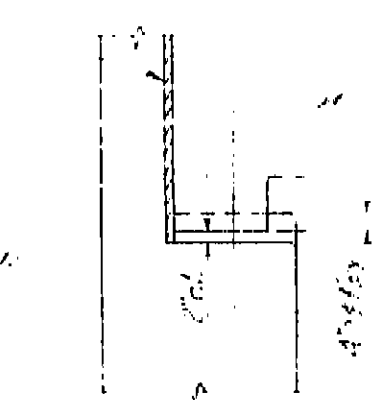
SECTION C-C
3/8" = 1'-0"



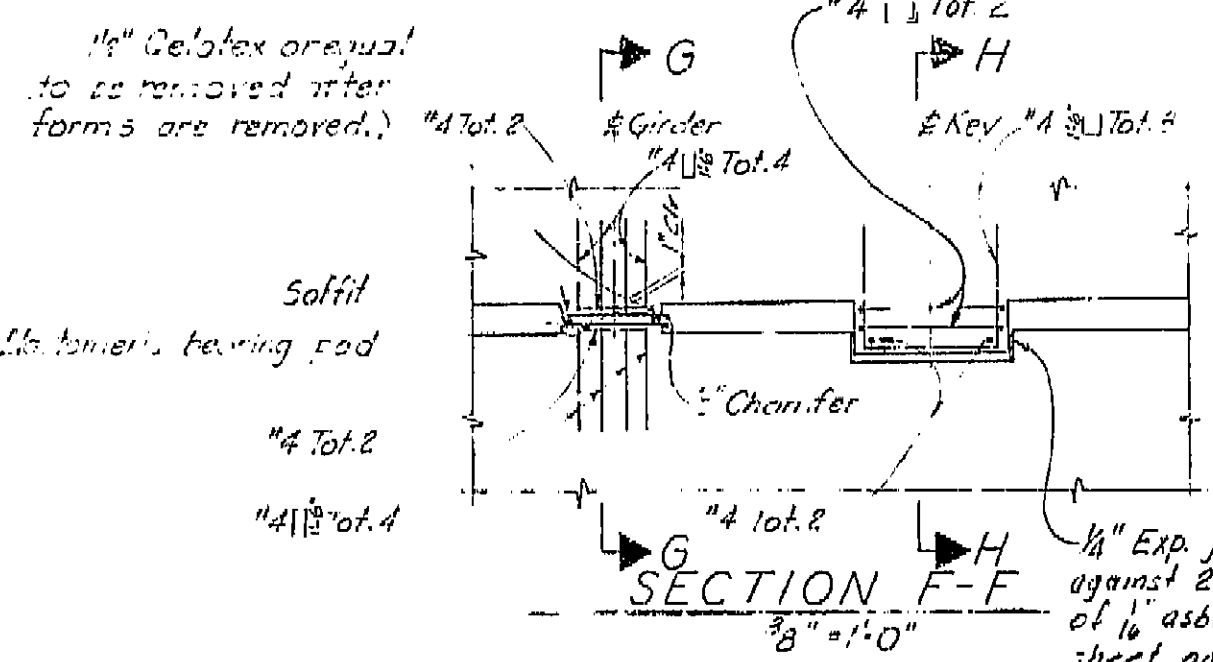
SECTION B-B
3/8" = 1'-0"



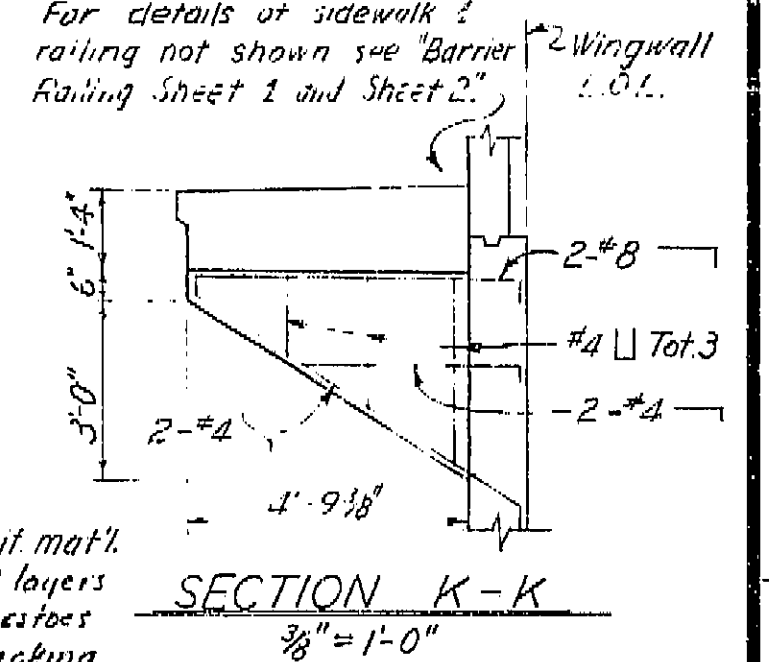
SECTION G-G
3/8" = 1'-0"



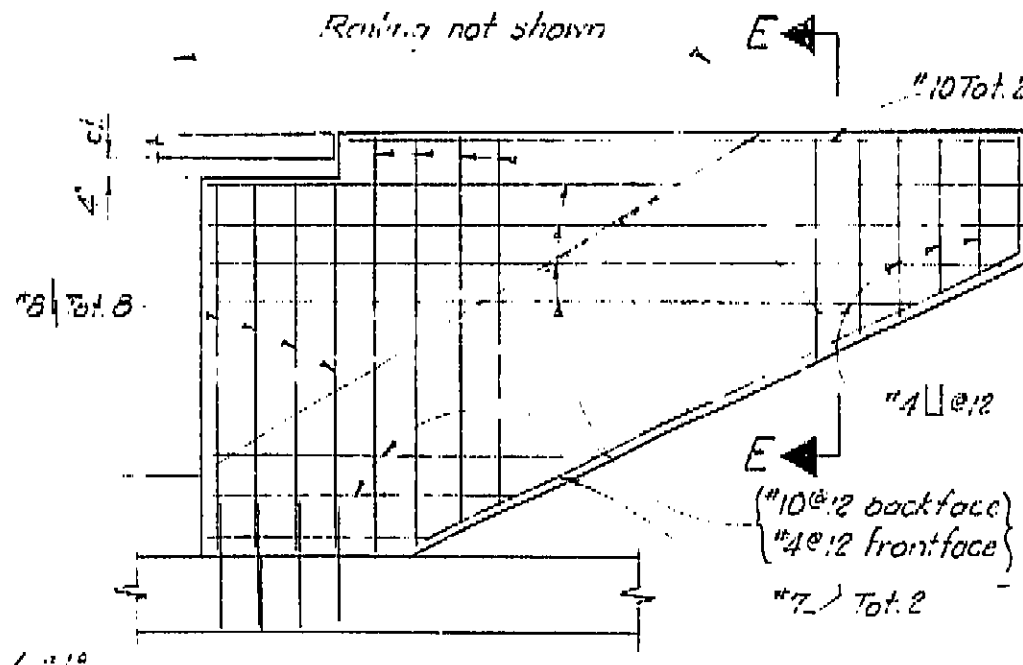
SECTION H-H
3/8" = 1'-0"



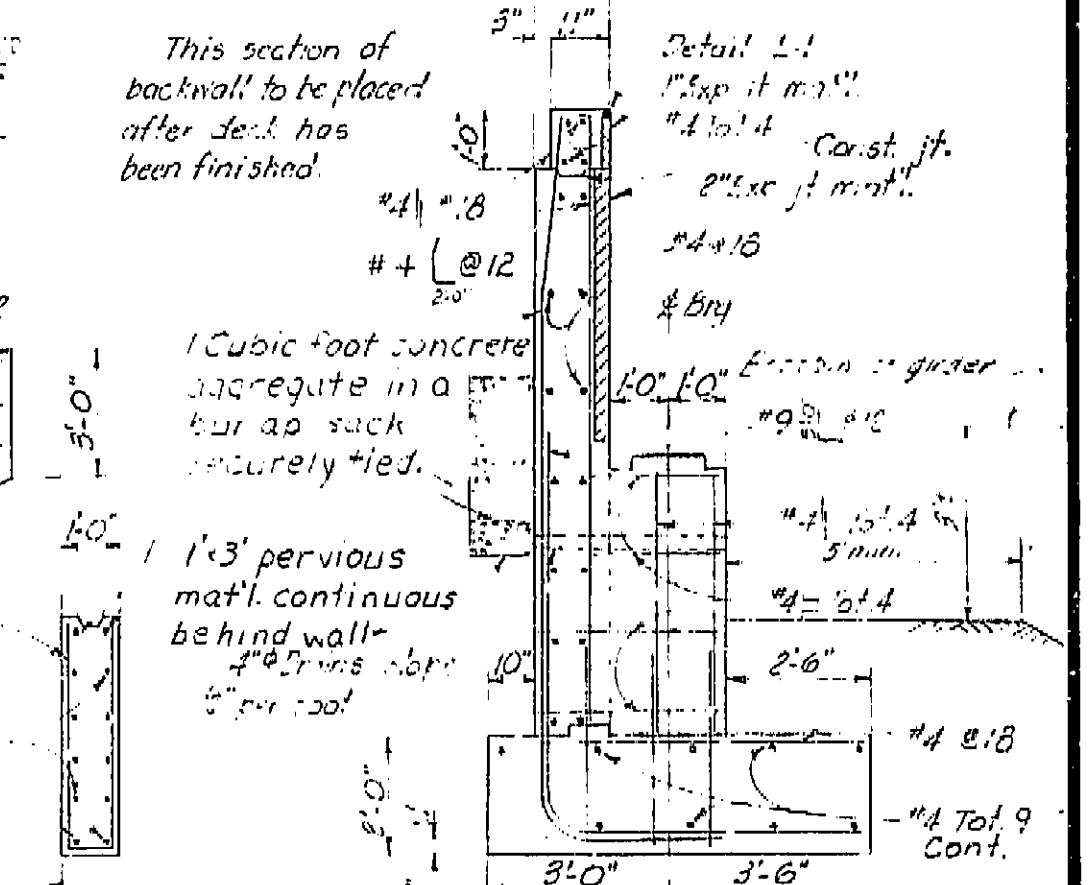
SECTION F-F
3/8" = 1'-0"



SECTION K-K
3/8" = 1'-0"



ELEVATION D-D
1/4" = 1'-0"



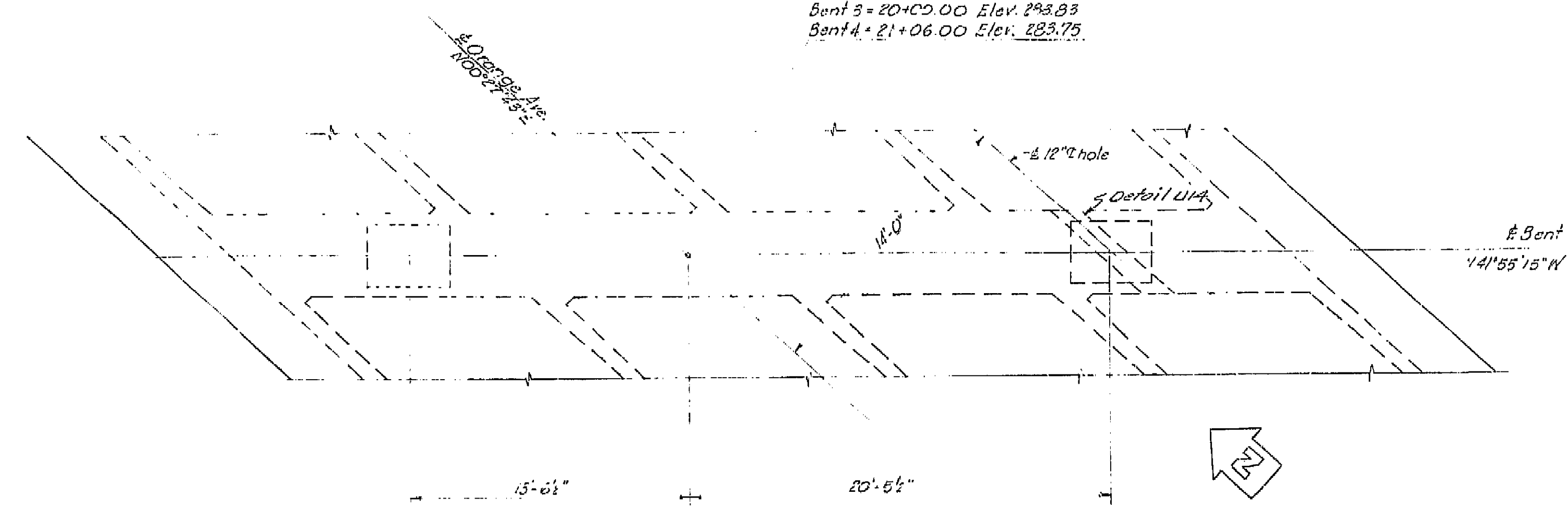
SECTION E-E
3/8" = 1'-0"

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: [Signature]			
Chief Designer: [Signature]			
DESIGN	By: [Name]	3/60	Checked: L.D. Rie...
DETAILS	By: [Name]	3/60	Checked: L.D. Rie...
QUANTITIES	By: [Name]	6/60	Checked: L.D. Rie...
SPECIFICATIONS	By: [Name]		Checked: L.D. Rie...

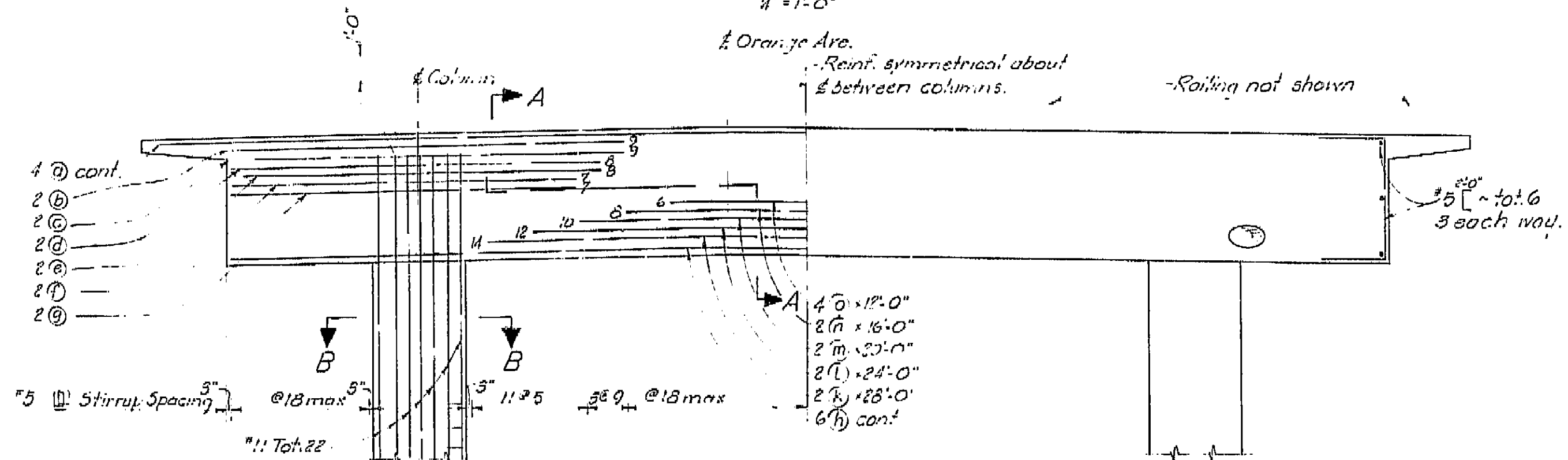
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
ORANGE AVENUE OVERCROSSING			
ABUTMENT DETAILS			
SCALE: As Noted	BRIDGE 42-211	FILE	DRAWING C-0138-4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-12-62 SIGNATURE [Signature] TITLE [Title]

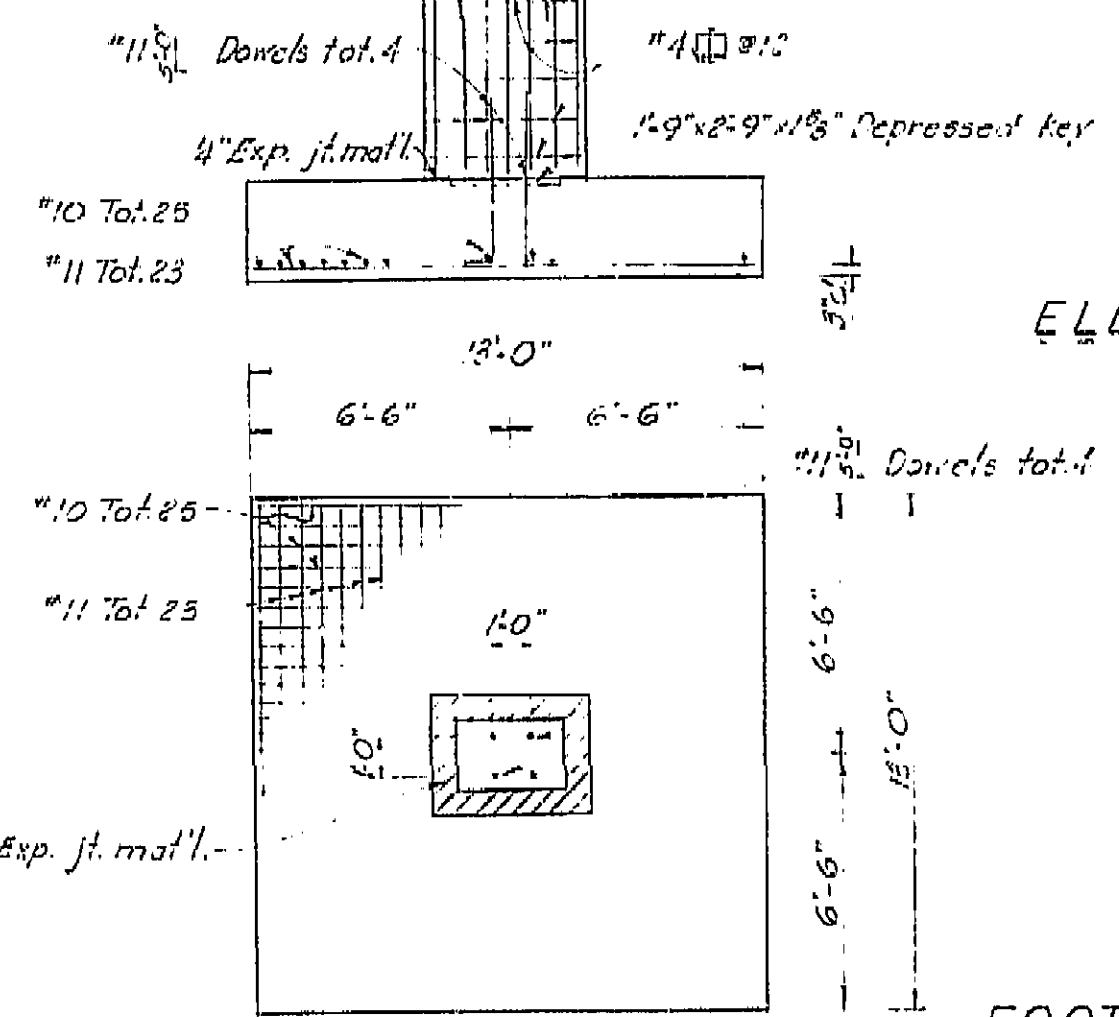
Bent 2 = 13+94.00 Elev. 283.90
Bent 3 = 20+00.00 Elev. 283.83
Bent 4 = 21+06.00 Elev. 283.75



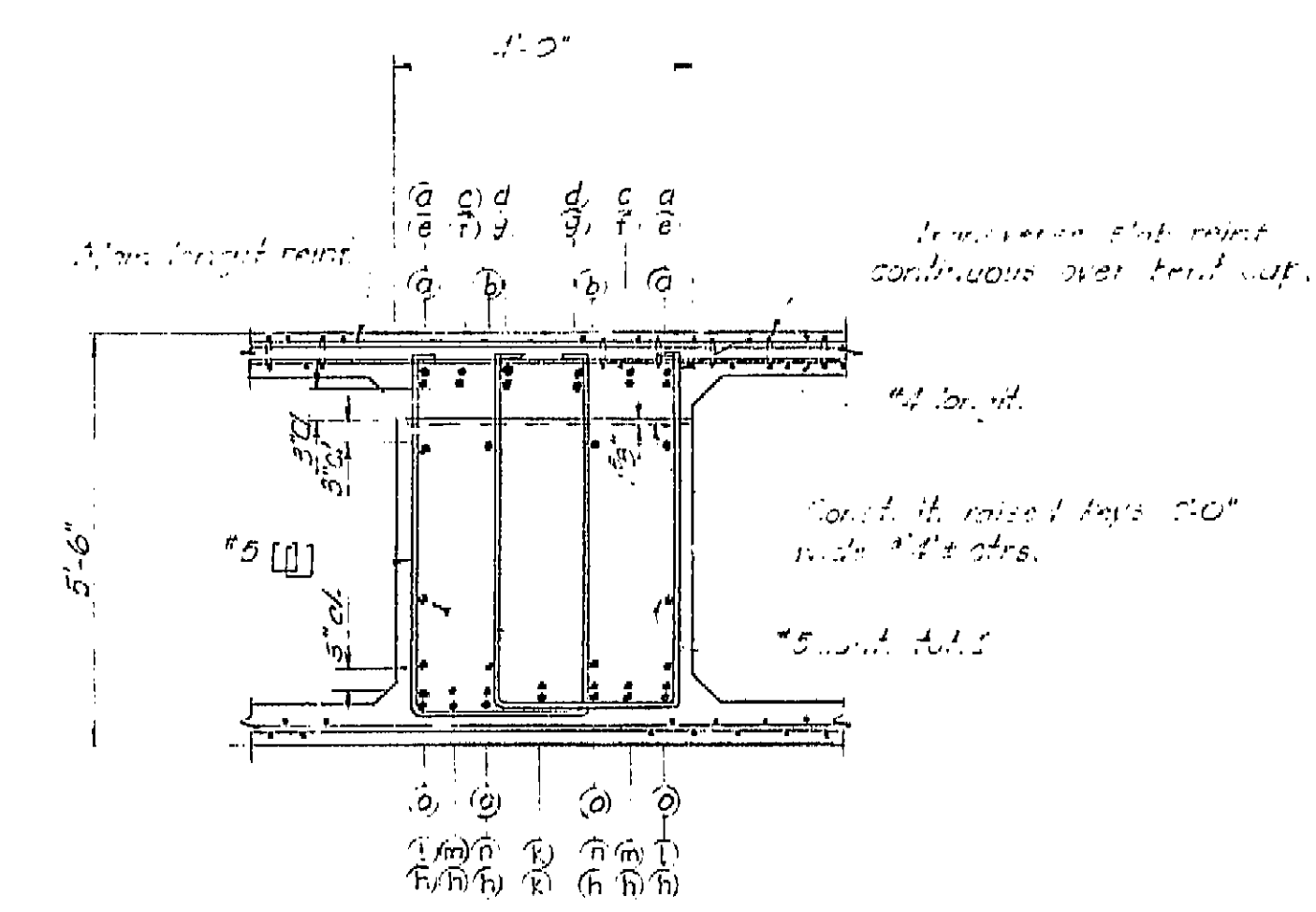
PLAN
1/4" = 1'-0"



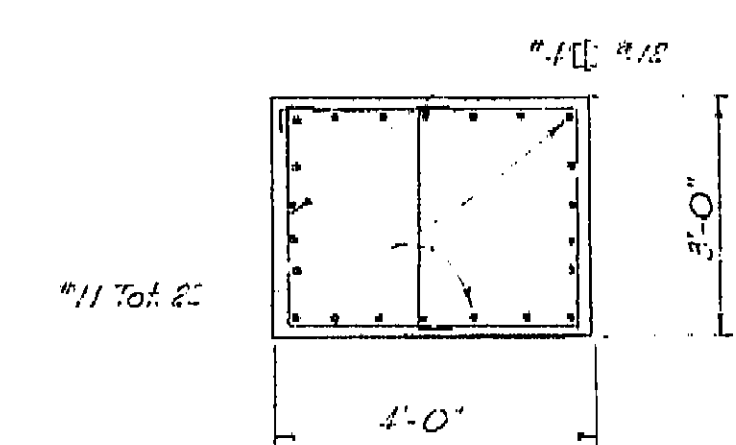
ELEVATION
1/4" = 1'-0"



FOOTING PLAN
1/4" = 1'-0"



SECTION A-A
1/4" = 1'-0"



SECTION B-B
1/4" = 1'-0"

Notes: All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from E.C.O.L. for top reinf. or from between columns for bottom reinf.

THIS SET OF PLANS IS THE PROPERTY OF THE STATE OF CALIFORNIA. IT IS TO BE KEPT IN THE FILES OF THE PROJECT AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE STATE ENGINEER.

AS BUILT PLANS
Contract No. 62-6713C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION Project Designer: <i>[Signature]</i> Chief Designer: <i>[Signature]</i>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN: <i>[Signature]</i> 60 DETAILS: <i>[Signature]</i> 60 QUANTITIES: <i>[Signature]</i> 60 SPECIFICATIONS: <i>[Signature]</i> 60		ORANGE AVENUE OVERCROSSING BENT DETAILS	
Approval Recommended by: <i>[Signature]</i> Engineer of Design		SCALE: As Noted BRIDGE: 42-511 FILE: <i>[Signature]</i> DRAWING: C-673A-5	

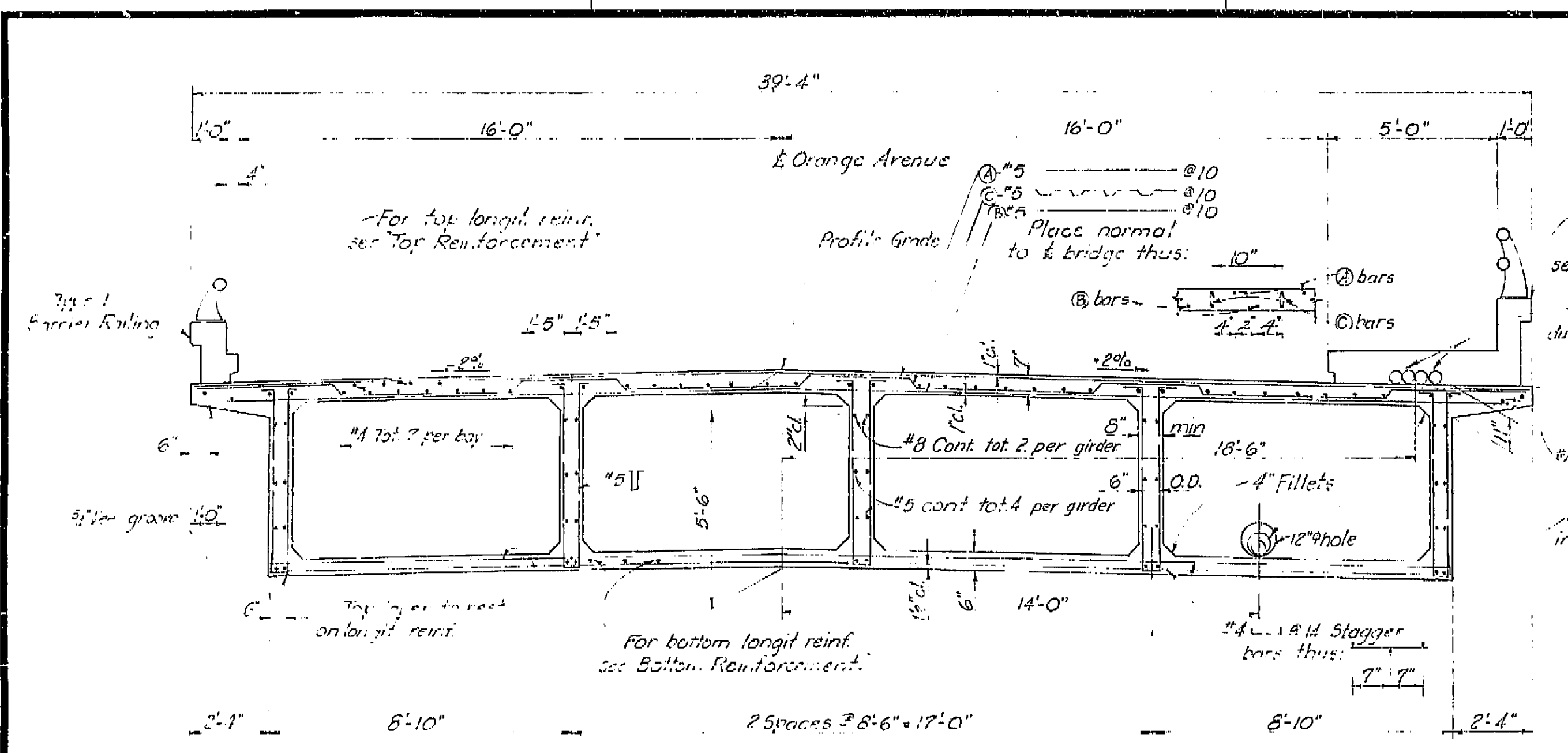
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE: 1-12-62 SIGNATURE: *[Signature]* TITLE: *[Signature]*

4-006-2(6)
F-006-2(6)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			225	281

CITY	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

August 28, 1961

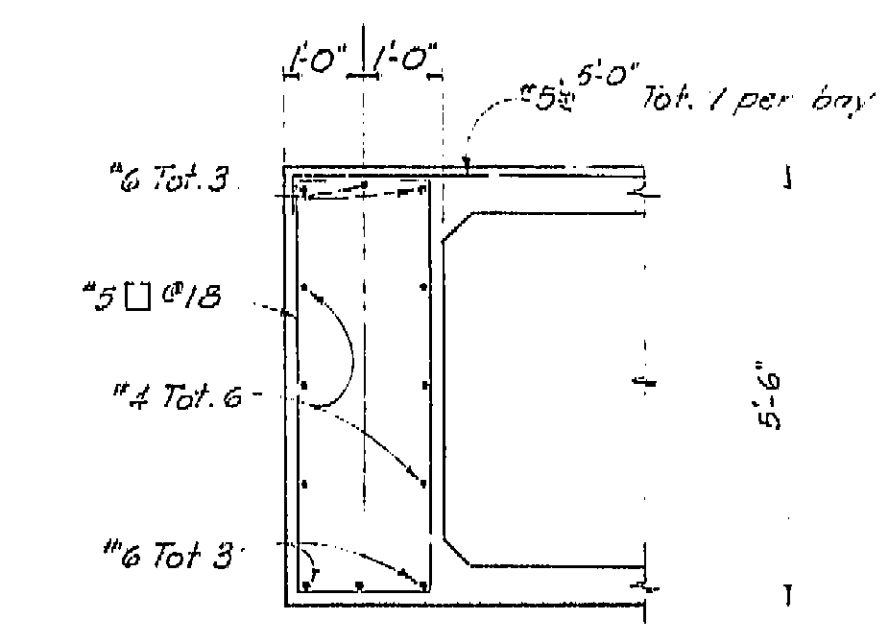


TYPICAL SECTION
3/8" = 1'-0"

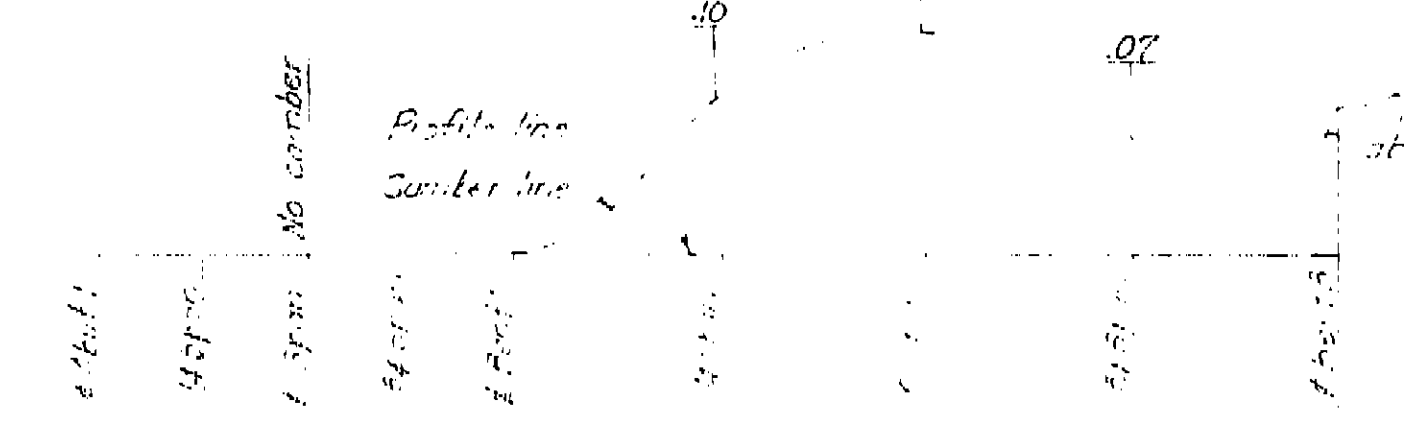
Type 5 Barrier Railing
For rsinf. not shown
see "Barrier Railing" sheets.

4-3/8" I.D. transite
ducts, P.T. & Co.

4" H.P. gas line
in 6" casing

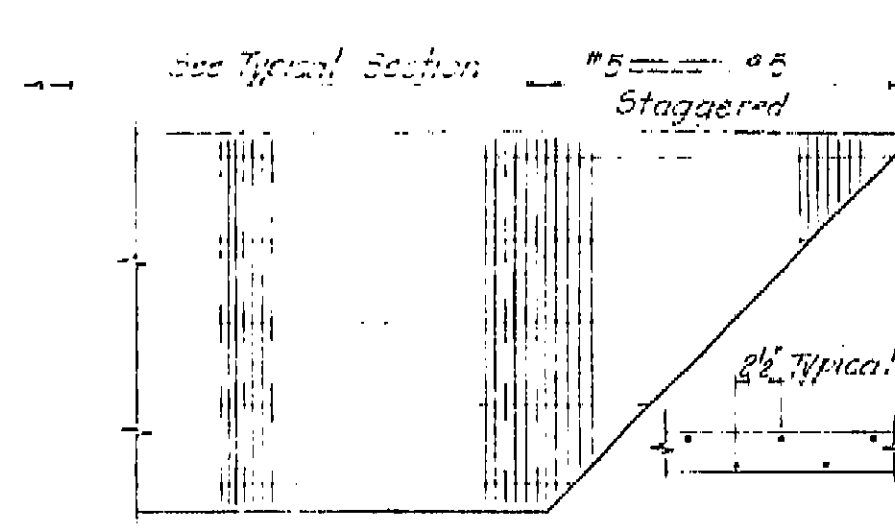


SECTION A-A
3/8" = 1'-0"

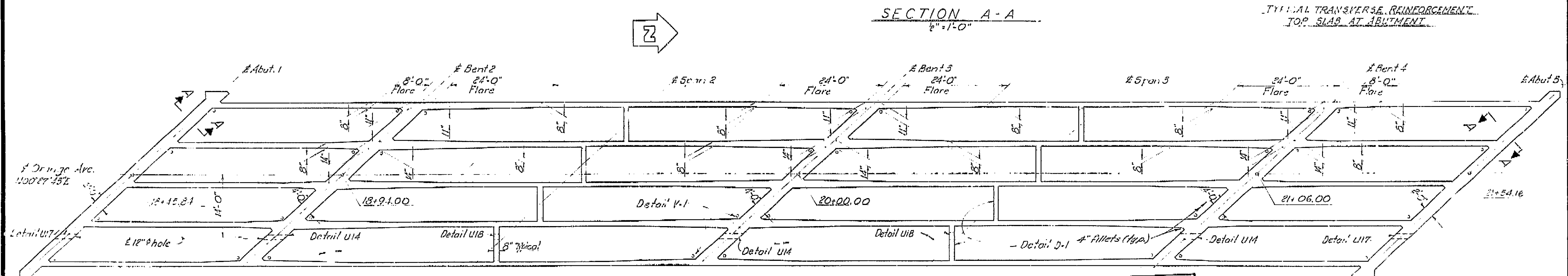


CAMBER DIAGRAM

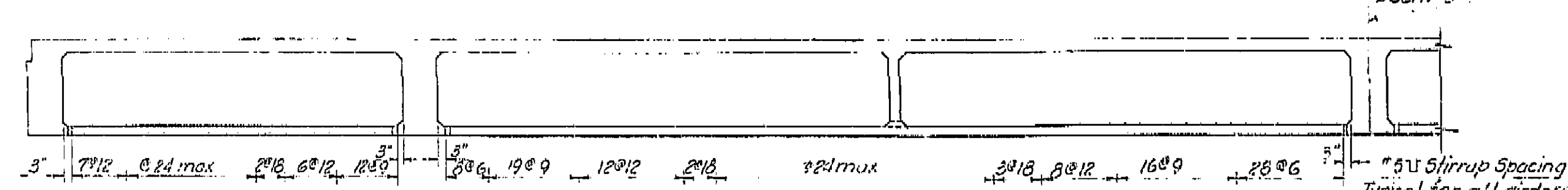
Notes: The total deflection will be reached 1/2 mile after
falsework removal. For values at time of falsework removal,
divide those shown by 4. The amount of camber for con-
struction will be determined by the Engineer.



TYPICAL TRANSVERSE REINFORCEMENT
TOP SLAB AT ABUTMENT



GIRDER LAYOUT
No Scale



LONGITUDINAL SECTION
No Scale

AS BUILT PLANS
Contract No. 62-6713C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO
SHOW THE AS BUILT CONDITIONS.
DATE 11-6-63

BRIDGE DEPARTMENT	
DESIGN SECTION 2	
Project Designer: <i>[Signature]</i>	
Chief Designer: <i>[Signature]</i>	
DESIGN	By: <i>[Signature]</i> Checked: <i>[Signature]</i>
DETAILS	By: <i>[Signature]</i> Checked: <i>[Signature]</i>
QUANTITIES	By: <i>[Signature]</i> Checked: <i>[Signature]</i>
SPECIFICATIONS	By: <i>[Signature]</i> Checked: <i>[Signature]</i>
Approval Recommended by: <i>[Signature]</i>	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
ORANGE AVENUE OVERCROSSING	
TYPICAL SECTION & GIRDER LAYOUT	
SCALE: As Noted	BRIDGE: 12-211
FILE	DRAWING: C-6738-6

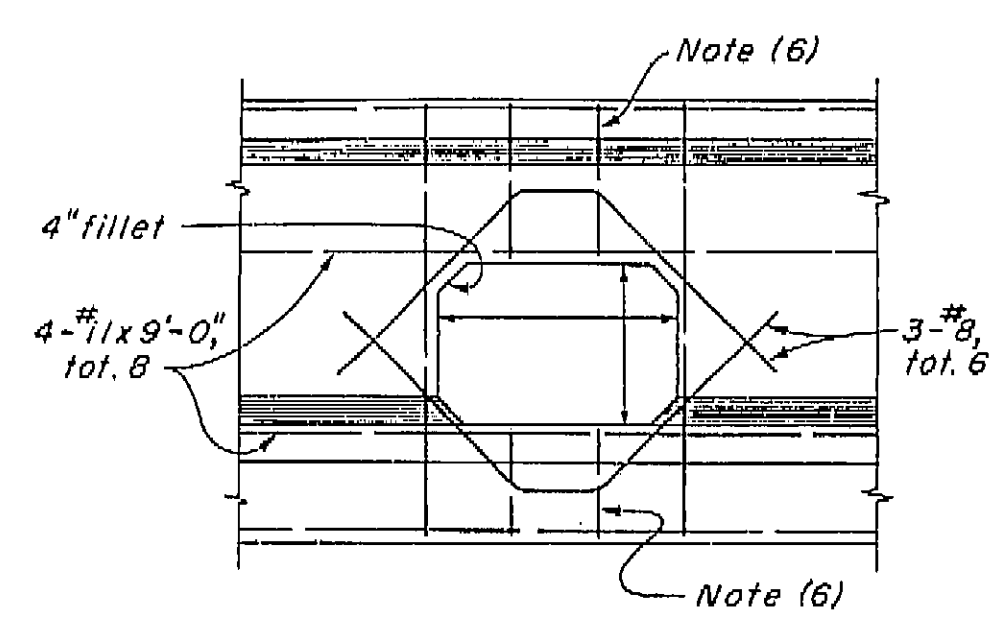
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-12-62 SIGNATURE *[Signature]* TITLE *[Title]*

STANDARD DRAWING
 DIVISION OF PUBLIC WORKS
 BRIDGE DEPARTMENT
 REVISIONS
 1. 11/1/55
 2. 11/1/55
 3. 11/1/55
 4. 11/1/55
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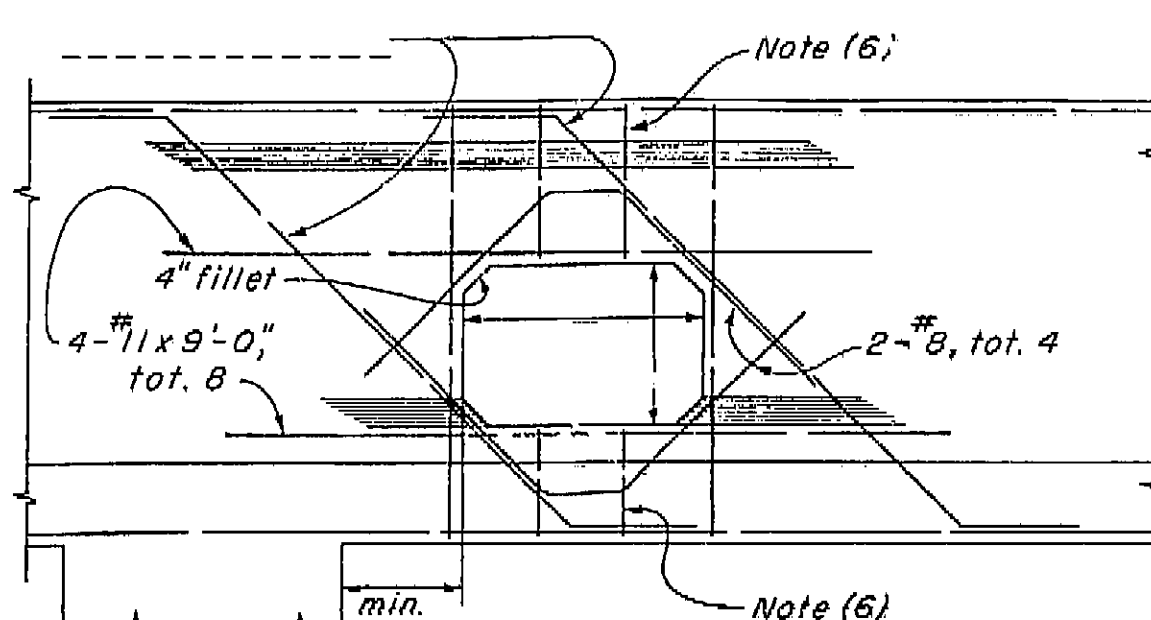
BRIDGE DEPARTMENT

VI Fre 99 4-005-2(5) F-005-2(5)

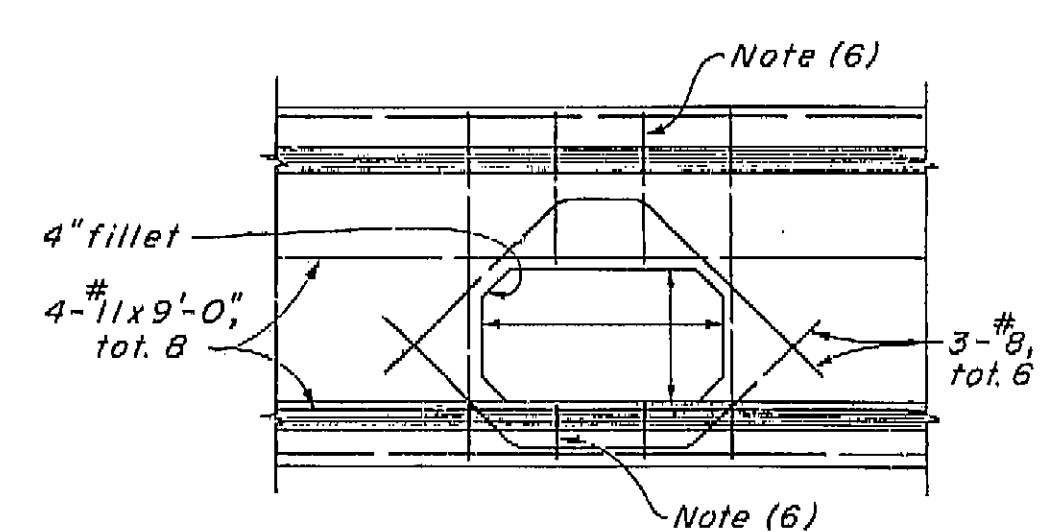
DATE: AUGUST 28, 1961
 APPROVED: [Signature]
 ENGINEER: [Signature]



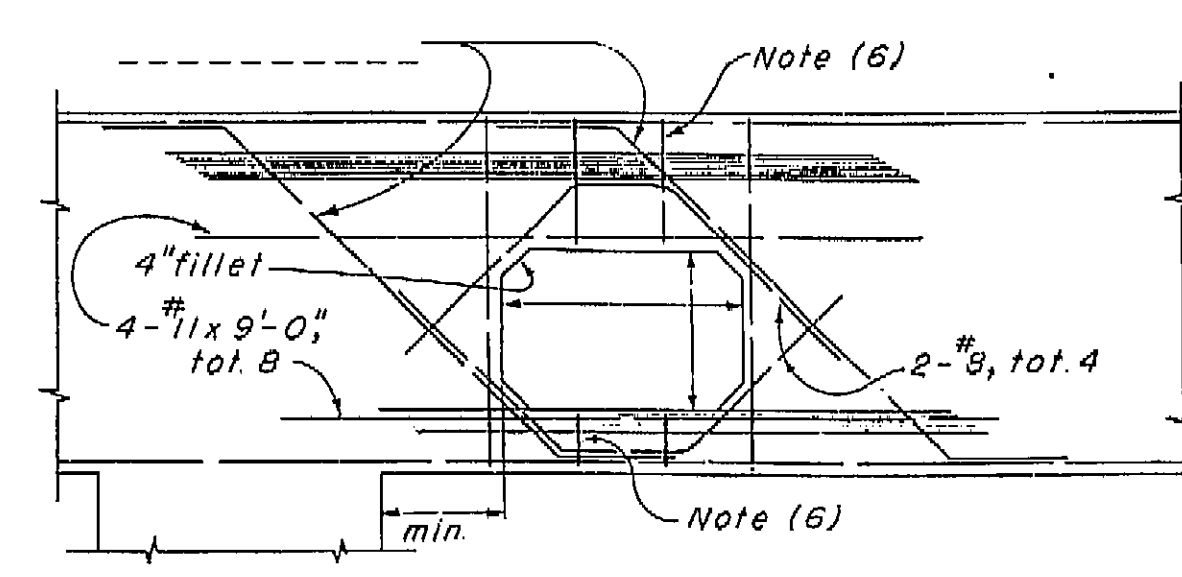
TYPICAL
DETAIL U1



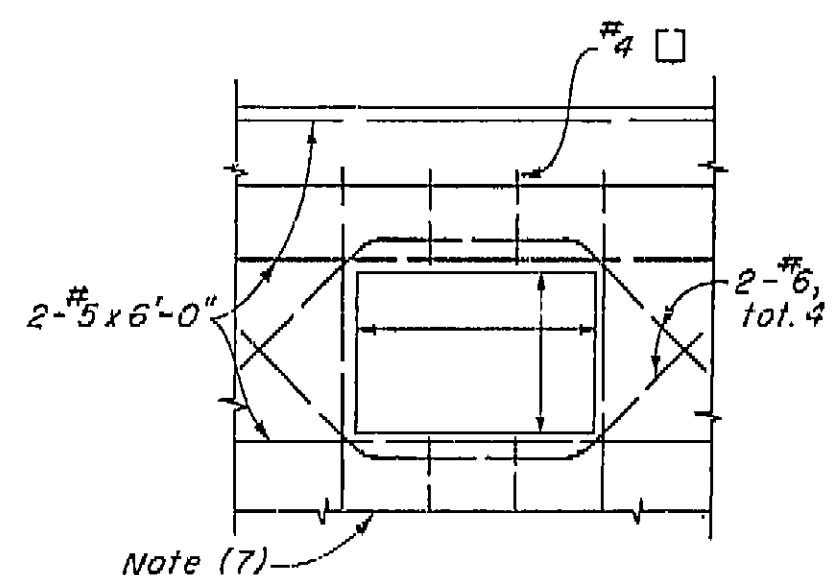
NEAR COLUMN
DETAIL U2



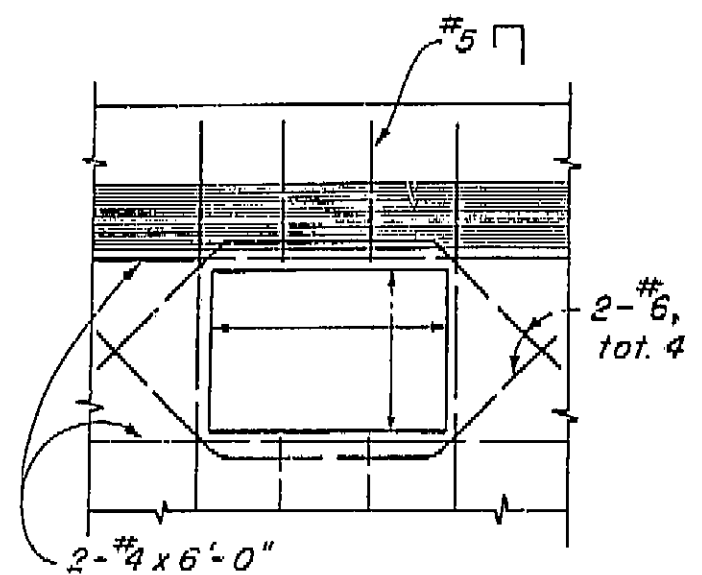
TYPICAL
DETAIL U3



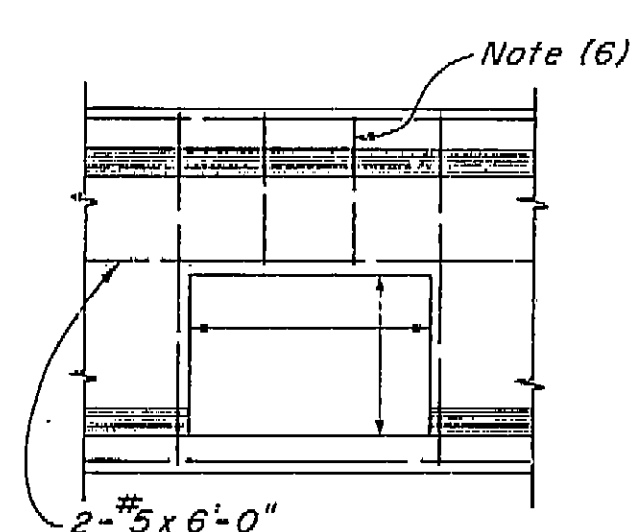
NEAR COLUMN
DETAIL U4



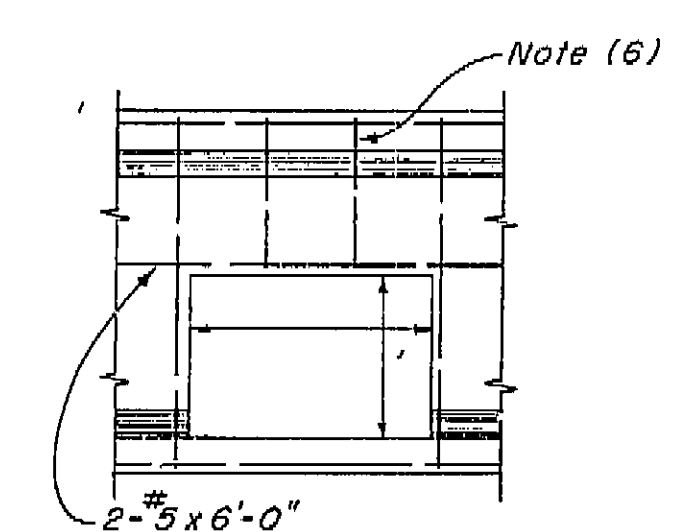
RIGID FRAME
DETAIL U5



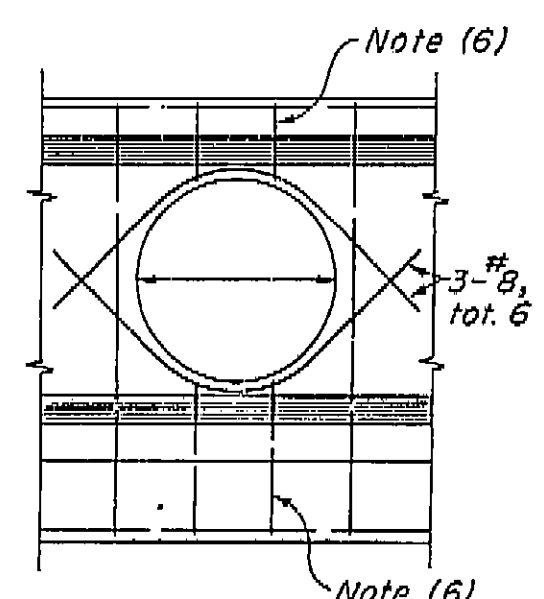
CANTILEVER TYPE
DETAIL U6



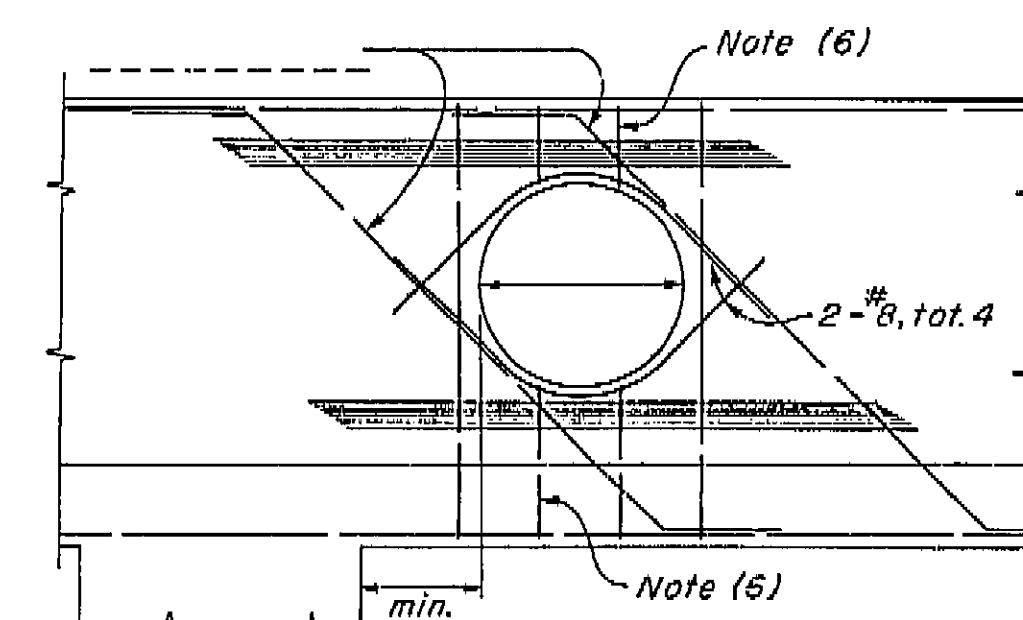
END
DETAIL U7



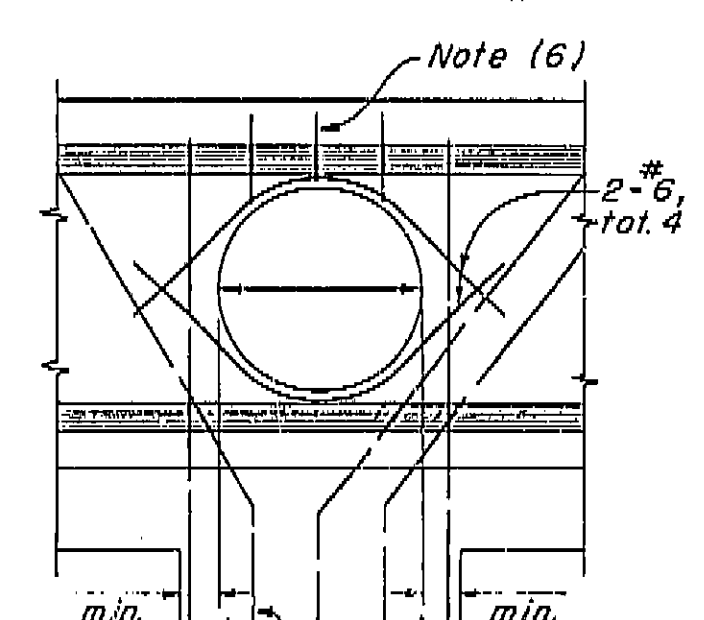
INTERMEDIATE
DETAIL U8



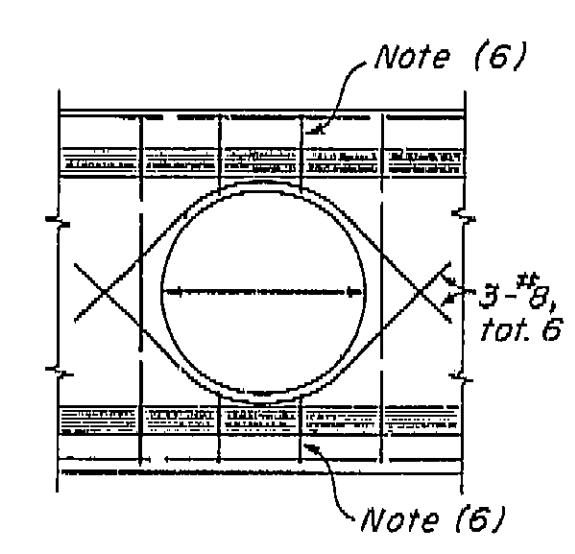
TYPICAL
DETAIL U9



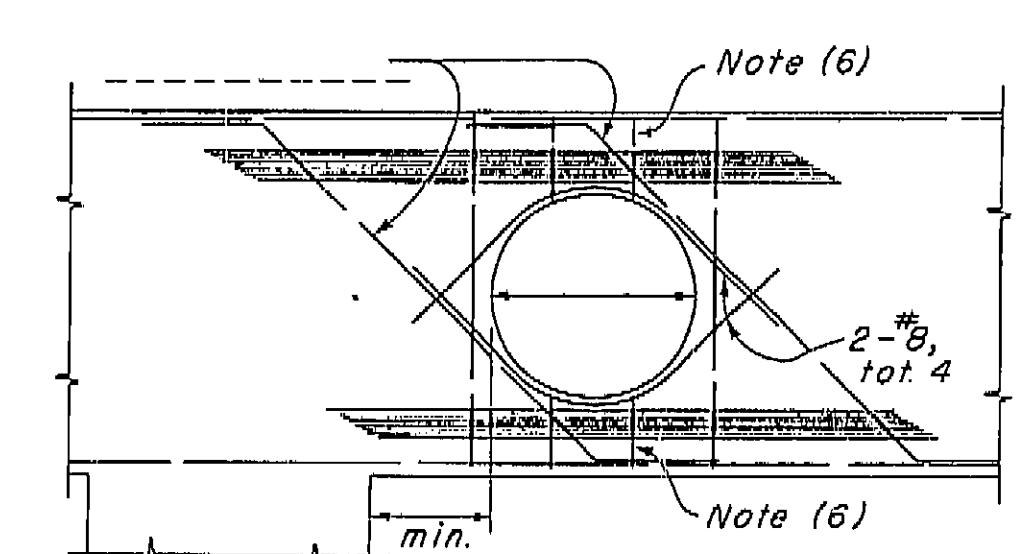
NEAR COLUMN
DETAIL U10



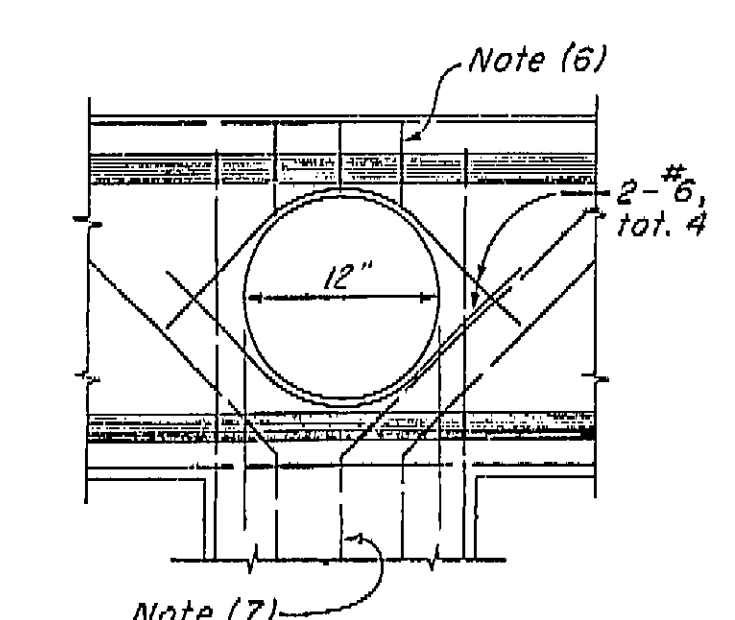
AT COLUMN
DETAIL U11



TYPICAL
DETAIL U12



NEAR COLUMN
DETAIL U13



AT COLUMN
DETAIL U14

NOTES

- (1) For exact location and direction of openings see other sheets.
- (2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
- (3) Girders not shown, see other sheets.
- (4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
- (5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
- (6) Stirrups are same size as adjacent stirrups shown on other sheets.
- (7) Main reinforcement to clear opening as detailed on other sheets.

AS BUILT PLANS
 Contract No. 62-671363
 Date Completed 6-27-63
 Document No. 60001062

JGE DEPARTMENT DESIGN SECTION			
PROJECT DESIGNER	BY P. J. [Signature]	CHECKED L. D. Ricci	63
CHIEF DESIGNER	BY P. J. [Signature]	CHECKED L. D. Ricci	63
DESIGN	BY P. J. [Signature]	CHECKED L. D. Ricci	63
DETAILS	BY P. J. [Signature]	CHECKED L. D. Ricci	63
QUANTITIES	BY P. J. [Signature]	CHECKED L. D. Ricci	63
SPECIFICATIONS	BY P. J. [Signature]	CHECKED L. D. Ricci	63
APPROVAL	RECOMMENDED BY P. J. [Signature]	CIVIL ENGINEER	5229

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
ORANGE AVENUE OVERPASSING			
STANDARD UTILITY DETAIL NO. 1			
SCALE	NONE	BRIDGE 42-211	FILE
PREL. DRAWING NO.	P-675	83	1/60

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
 DATE 6-27-63 SIGNATURE [Signature] TITLE [Title]

VI Fre 99

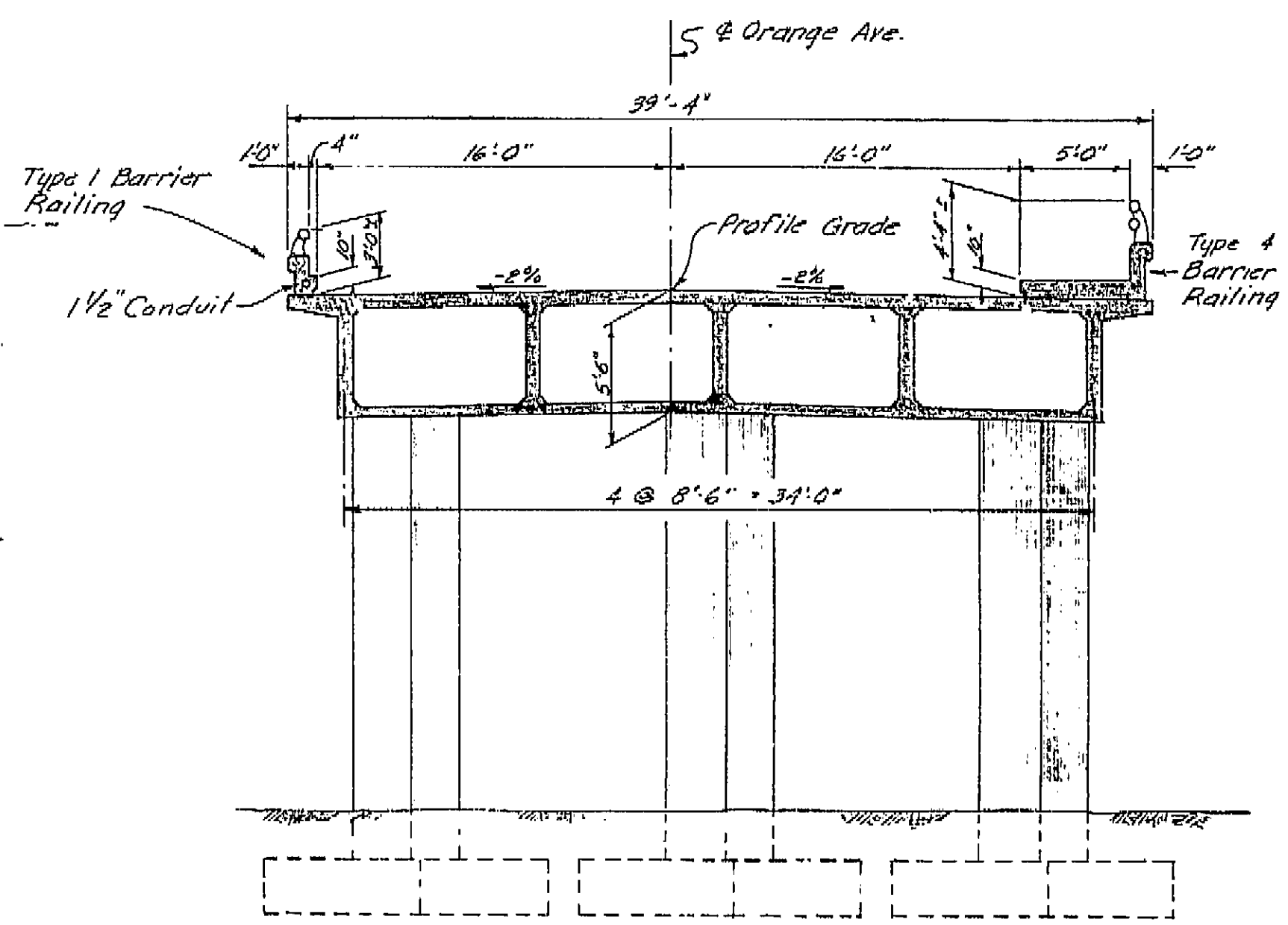
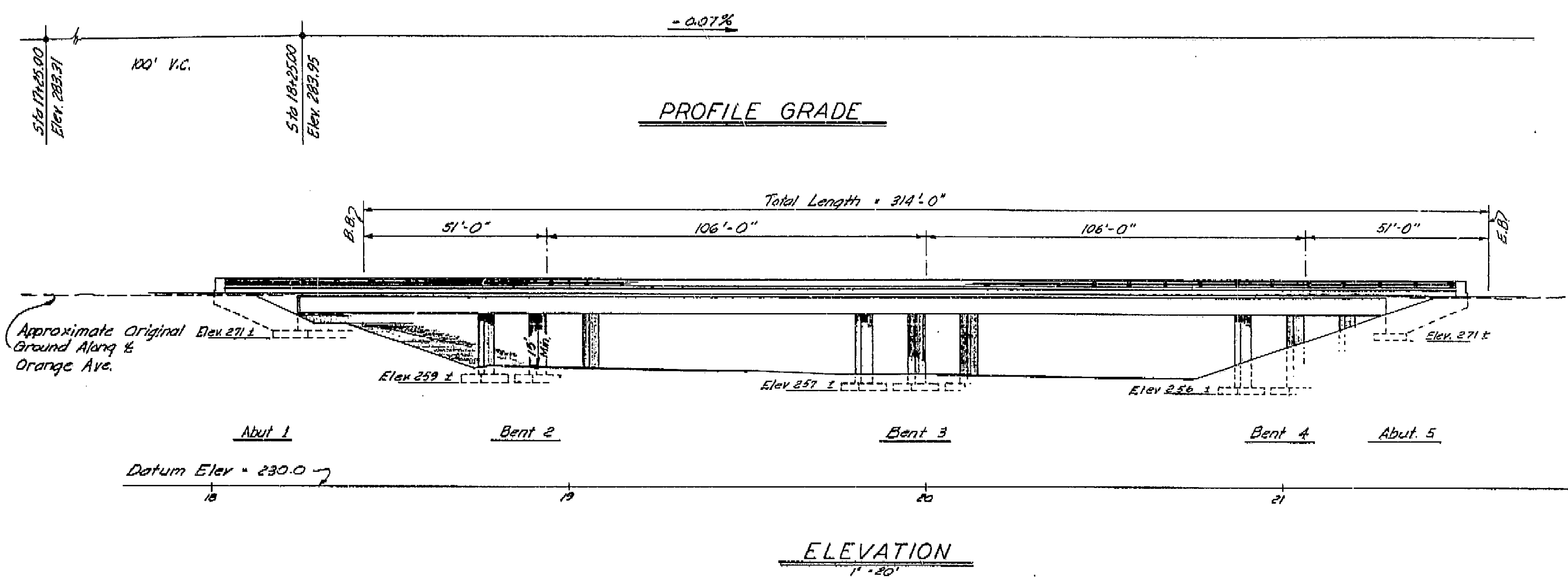
U-006-215)
F-006-215)

FED. ROAD DIST. NO.	STATE	F. & PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		232	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	8	232	424

DISTRICT ENGINEER
DATE APPROVED: August 29, 1961

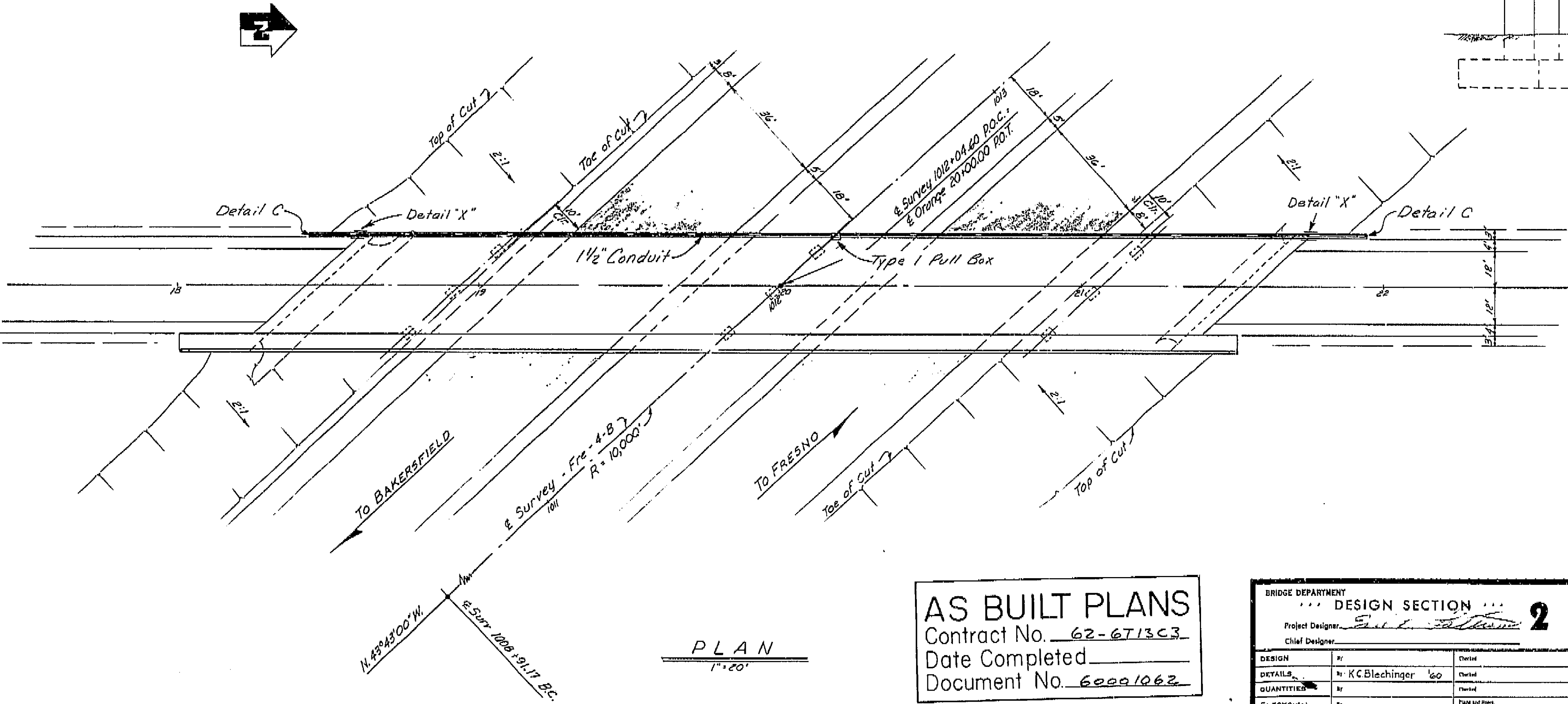
[Signature]



TYPICAL SECTION
3/8" = 1'-0"

Note: This plan accurate for highway lighting only.

For additional notes see Sheet No. ES-7-4



PLAN
1" = 20'

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT	
DESIGN SECTION 2	
Project Designer	<i>[Signature]</i>
Chief Designer	<i>[Signature]</i>
DESIGN	BY KC Blechinger '60
DETAILS	BY KC Blechinger '60
QUANTITIES	BY KC Blechinger '60
ELECTRICAL	BY KC Blechinger '60
Approval Recommended by	<i>[Signature]</i>
Engineer of Design	<i>[Signature]</i>
Civil Engr. License No.	5433

STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
ORANGE AVENUE OVERCROSSING	
LOCATED ABOUT 1.5 MILES SOUTHEAST OF THE SOUTH CITY LIMIT OF FRESNO	
LIGHTING PLAN	
SCALE: AS NOTED	BRIDGE 42-211
FILE	DRAWING C-6738-13

PREL. DRAWING NO. P- 6738-11

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE _____ SIGNATURE _____ TITLE _____

VI FRE 99

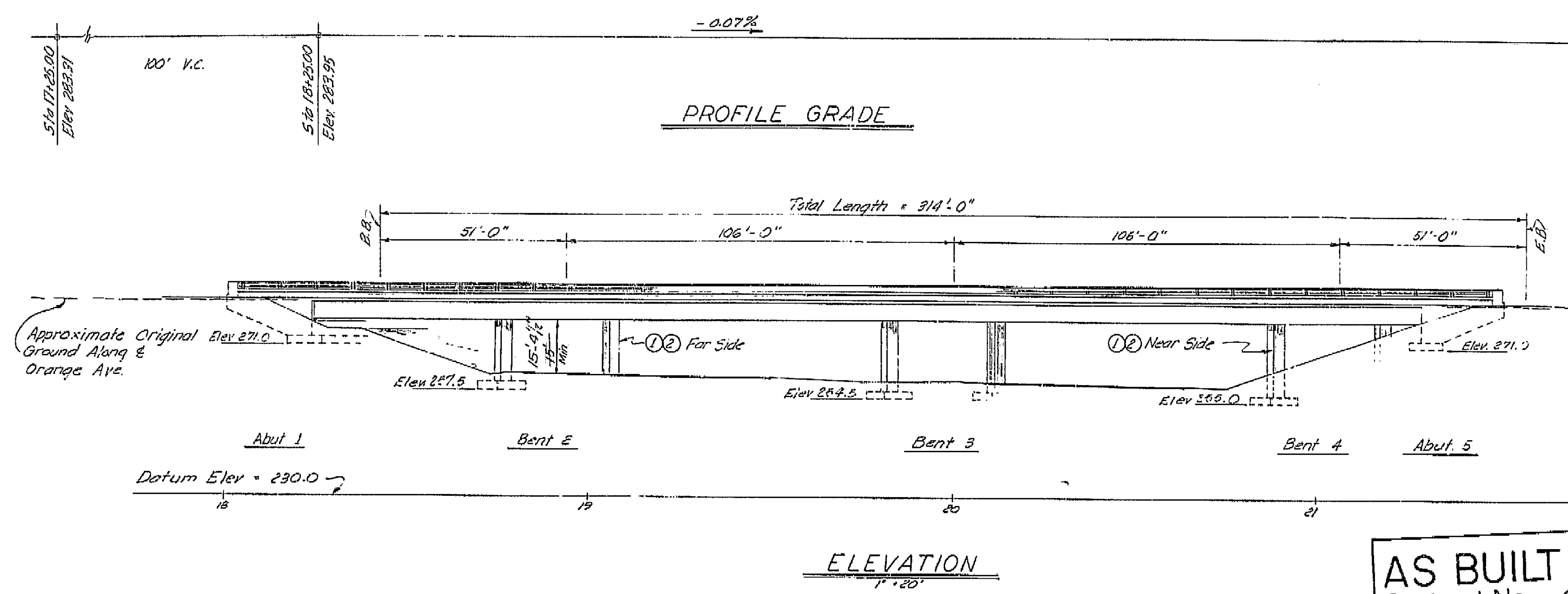
U-006-2(6)
F-006-2(3)

FED. ROAD DIST. NO. 7 STATE CALIF. F. A. PROJECT NO. SHEET TOTAL 220 424

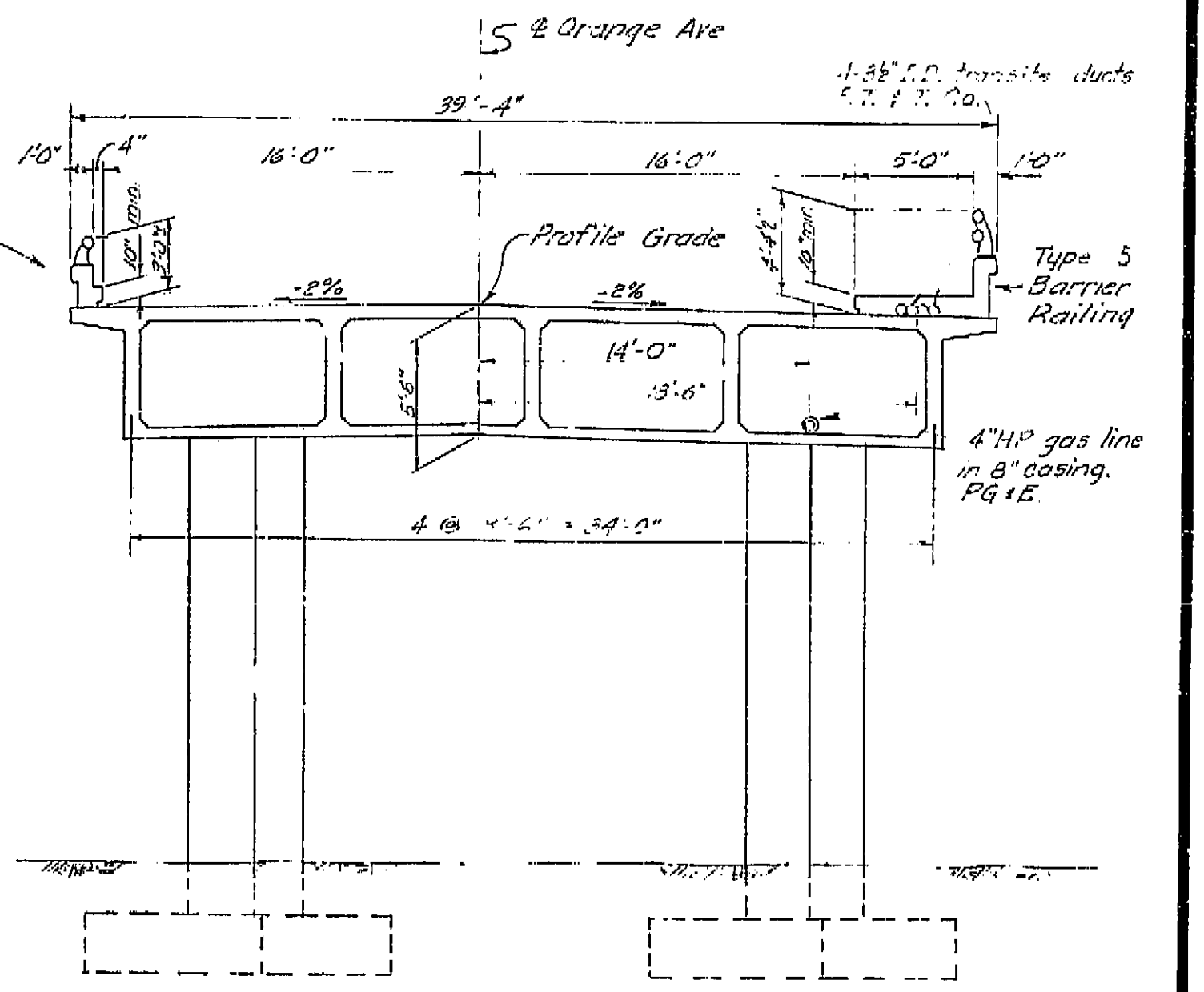
APPROXIMATE QUANTITIES	
*STRUCTURE EXCAVATION (BRIDGE)	710 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	370 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	1,130 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	297,000 LBS.
BARRIER RAILING (TYPE 1)	349 L.F.
BARRIER RAILING (TYPE 5)	349 L.F.

*FINAL QUANTITIES

DIV. COUNTY ROUTE SECTION SHEET TOTAL
VI FRE 99 19 220 424
DATE APPROVED: 11/15/55
BY: [Signature]
CHIEF ENGINEER



AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

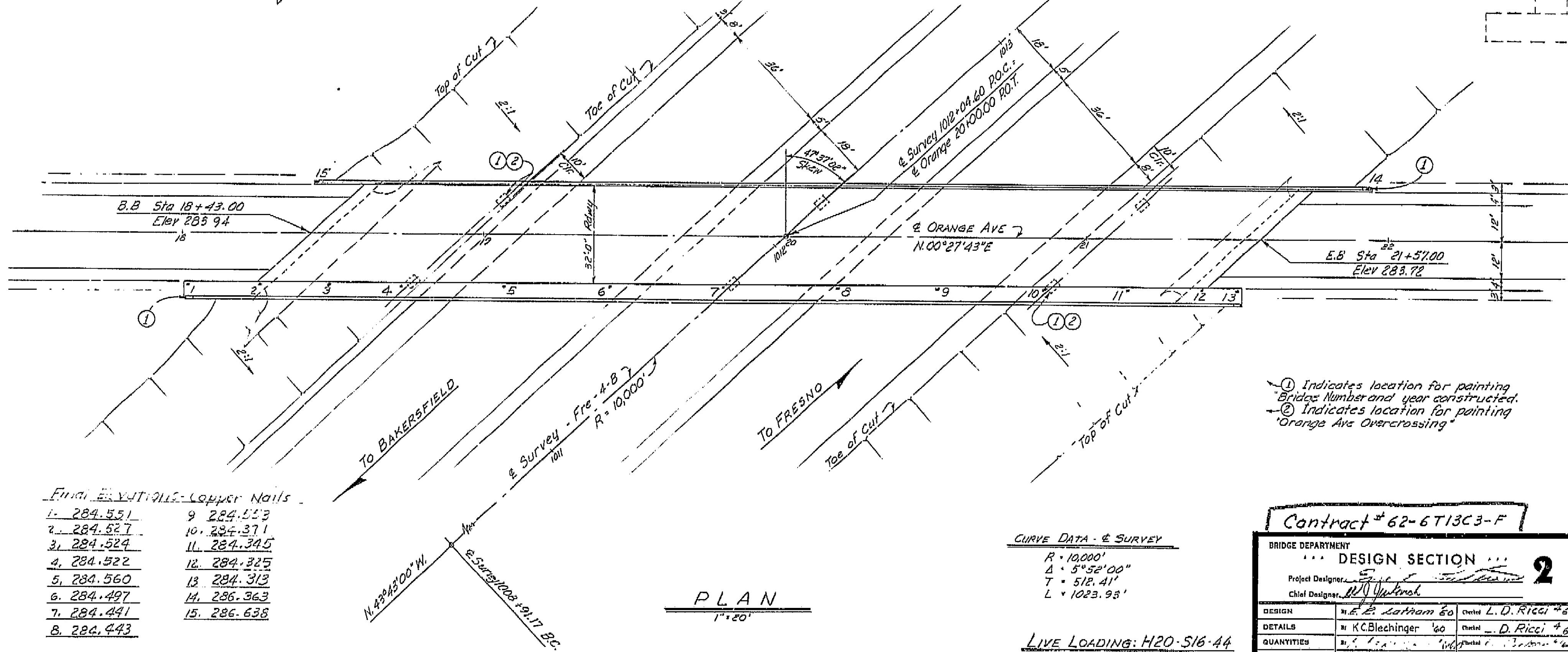


TYPICAL SECTION
3/8" x 1'-0"

Sheet No.	Title
1	General Plan
2	Grid of Deck Elevations
3	Foundation Plan
4	Abutment Details
5	Bent Details
6	Typical Section & Girder Layout
7	Girder Reinforcement
8	Standard Details No. 1
9	Standard Utility Details No. 1
10	Barrier Railing Sheet 1
11	Barrier Railing Sheet 2
12	Log of Test Borings
13	

Note: Route Change (VI-Fre-99)

THIS SET OF PLANS HAS BEEN CORRECTED TO
CONFORM TO THE "AS BUILT" PRINTS DATED
4-8-63 AS SUBMITTED BY RESIDENT
J.W. Beck
THE CORRECTIONS ARE DATED: 11-20-63



PLAN
1" = 20'

CURVE DATA - & SURVEY
R = 10,000'
Δ = 5° 52' 00"
T = 512.41'
L = 1023.93'

LIVE LOADING: H20-S16-44
AND ALTERNATIVE

Contract # 62-6T13C3-F

BRIDGE DEPARTMENT	
DESIGN SECTION	
Project Designer: [Signature]	
Chief Designer: [Signature]	
DESIGN	by E. A. Latham 60
DETAILS	by K. C. Blechinger 60
QUANTITIES	by E. A. Latham 60
SPECIFICATIONS	by E. A. Latham 60
Approval Recommended by: [Signature]	
Engineer of Design	

For General Notes see "Foundation Plan"

STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
ORANGE AVENUE OVERCROSSING	
LOCATED ABOUT 1.5 MILES SOUTHEAST OF THE SOUTH CITY LIMIT OF FRESNO	
GENERAL PLAN	
SCALE: AS NOTED	BRIDGE 42-211
FILE	DRAWING C-673R-1

PREL. DRAWING NO. P. 673R-1 211 20 36

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-12-62 SIGNATURE: [Signature] TITLE: [Title]

Revision: 9-22-60
Made #8 bar cont.
in Detail J-1

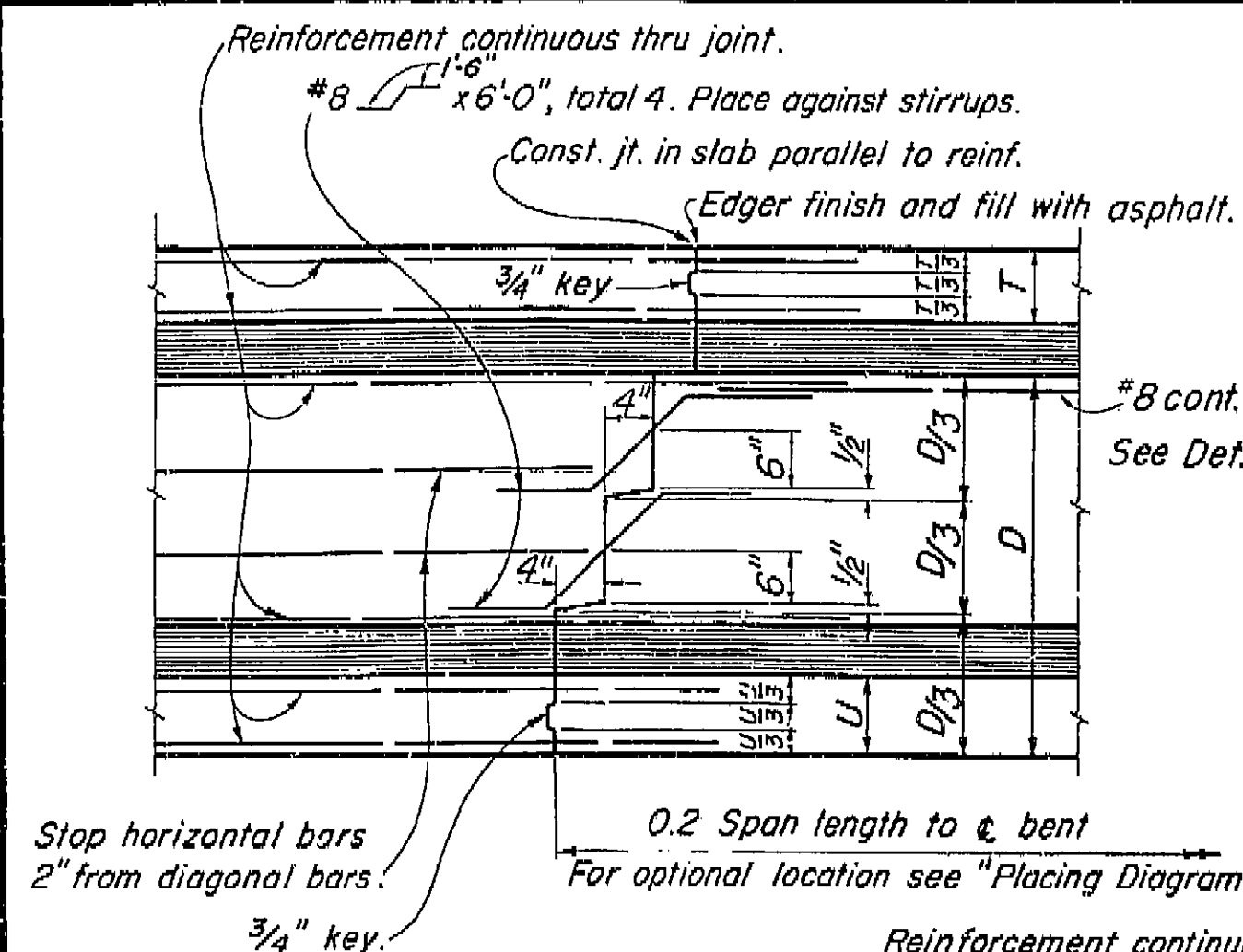
VI Fre 99

1005-2(6)
1005-2(5)

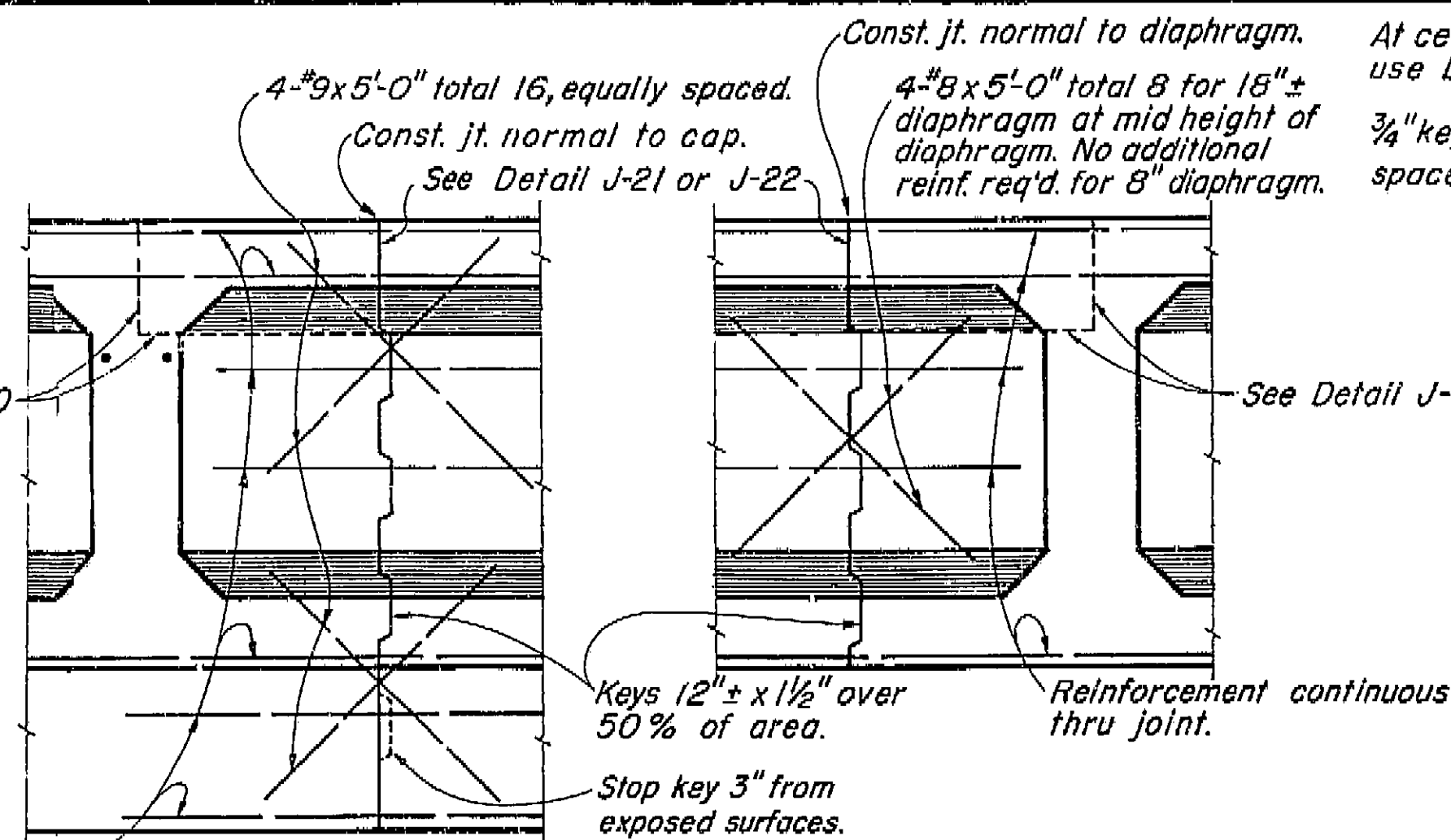
FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		227	429

DIST.	COUNTY	ROUTE	SECTION	SHEET	TOTAL SHEETS
VI	Fre	99		227	429

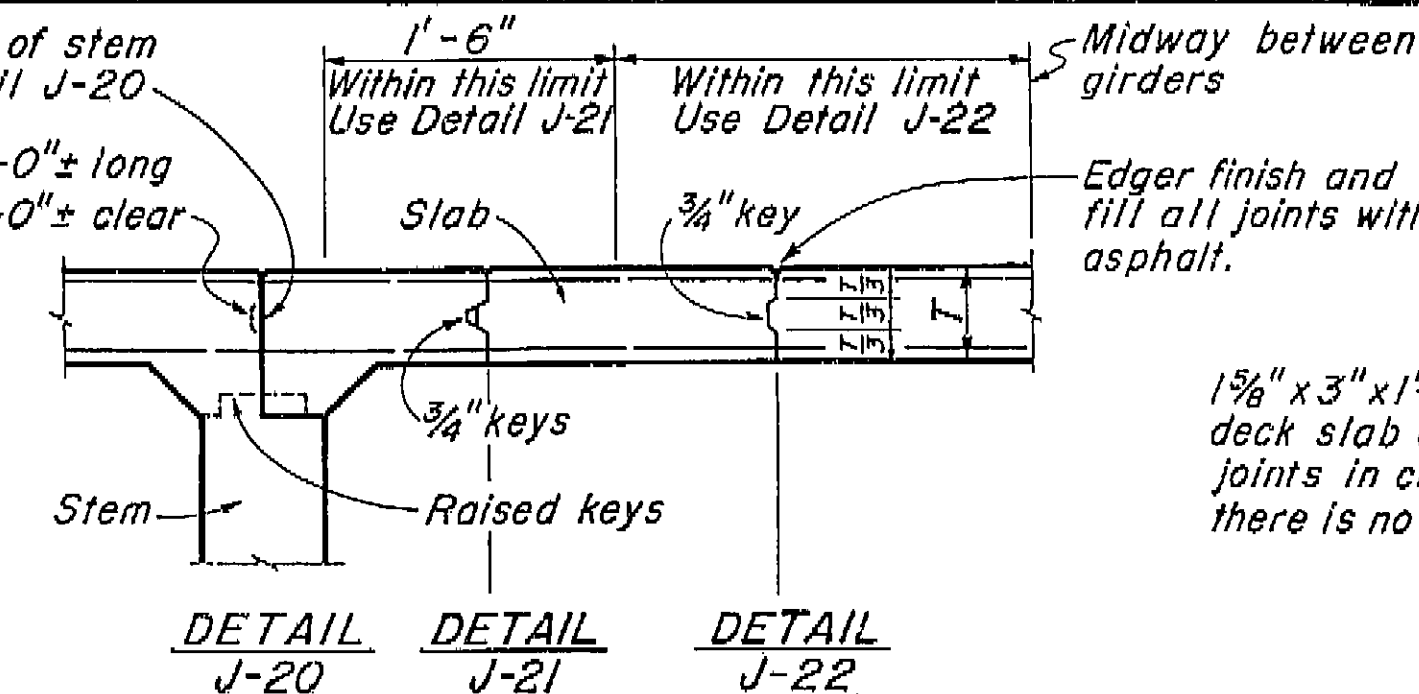
DATE APPROVED: August 28, 1961



TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3



BENT CAP LONGITUDINAL CONSTRUCTION JOINTS
DETAIL J-4



DECK SLAB LONGITUDINAL CONSTRUCTION JOINTS
DETAIL J-20, DETAIL J-21, DETAIL J-22

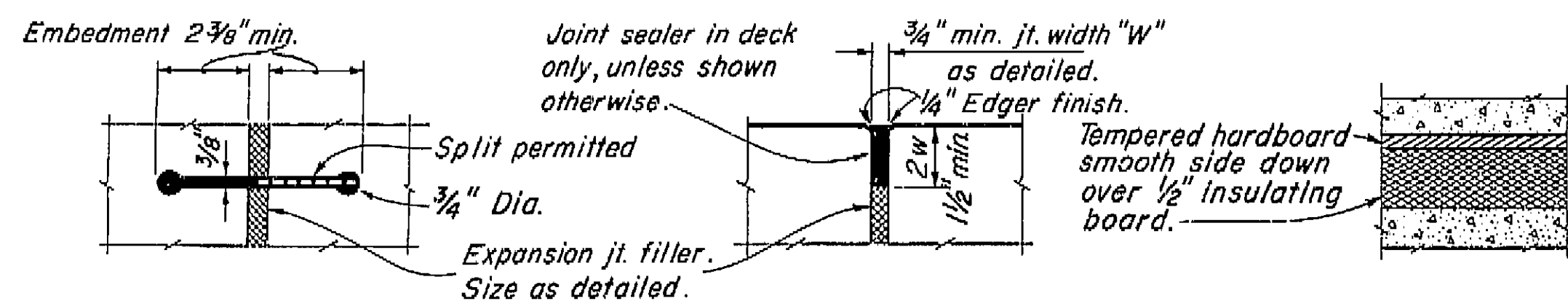
1 1/8" x 3" x 1'-0" Raised key in deck slab on low side only, at joints in curb and rail where there is no joint in the deck slab.

THIS SET OF PLANS HAS BEEN CORRECTED TO REFLECT THE LATEST REVISIONS OF THE CALIFORNIA STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION.

1 1/8" x 6" x 1'-0" Raised key in deck slab on low side only, at joints in curb and rail where there is no joint in the deck slab.

CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

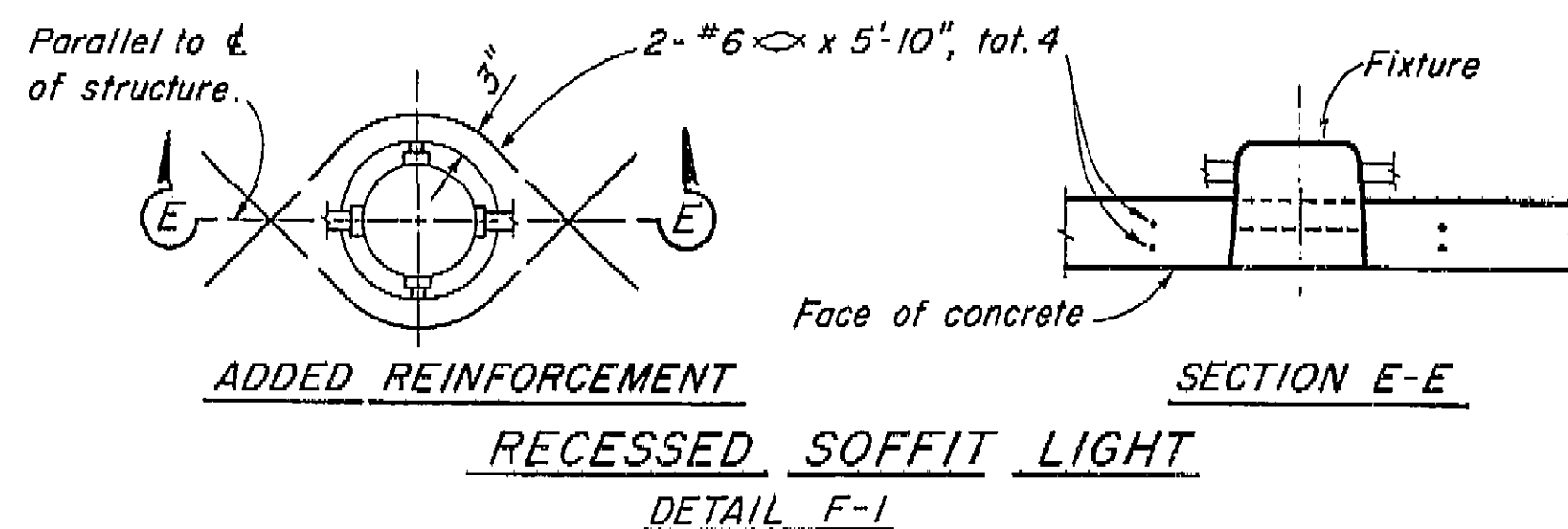
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



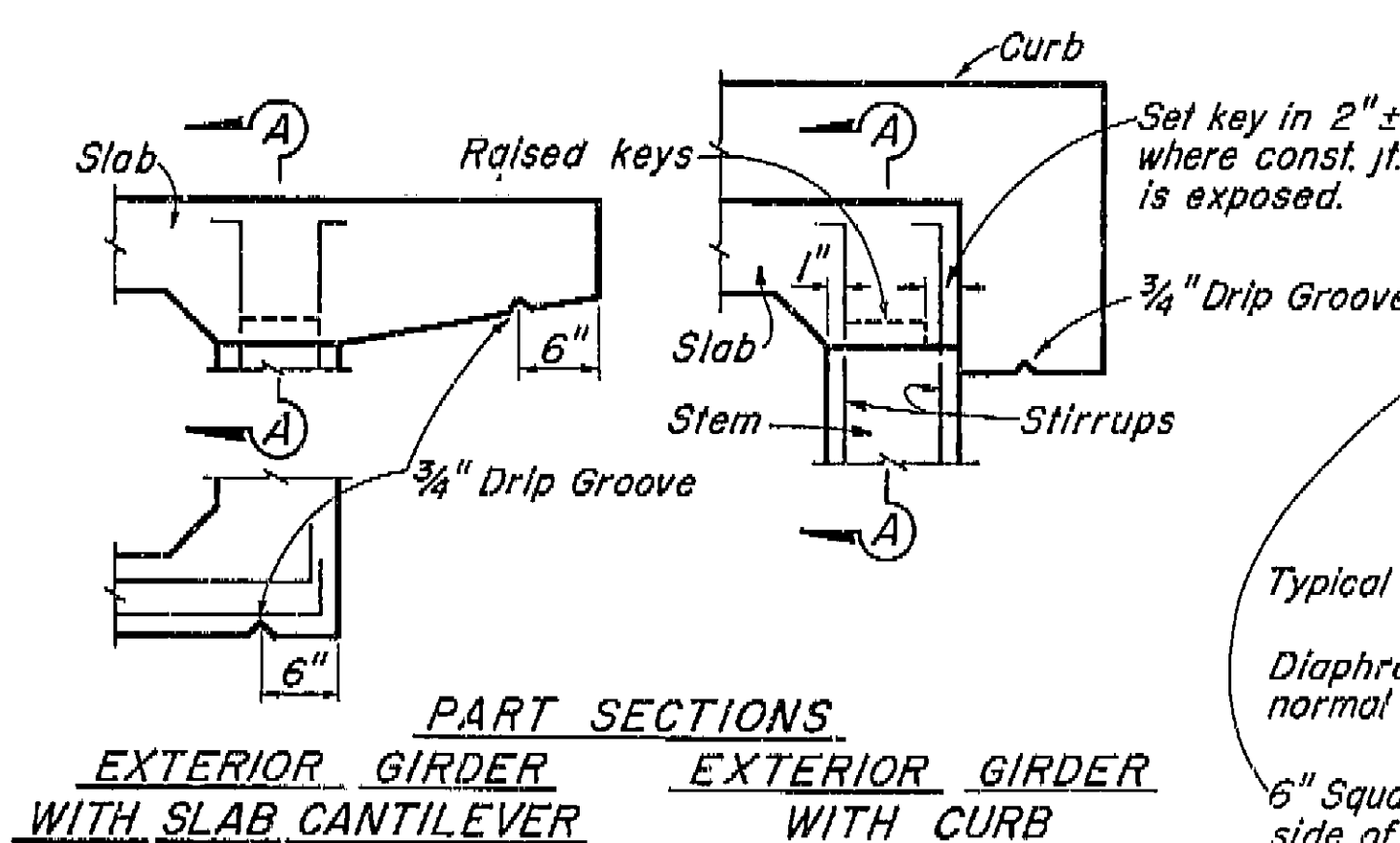
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

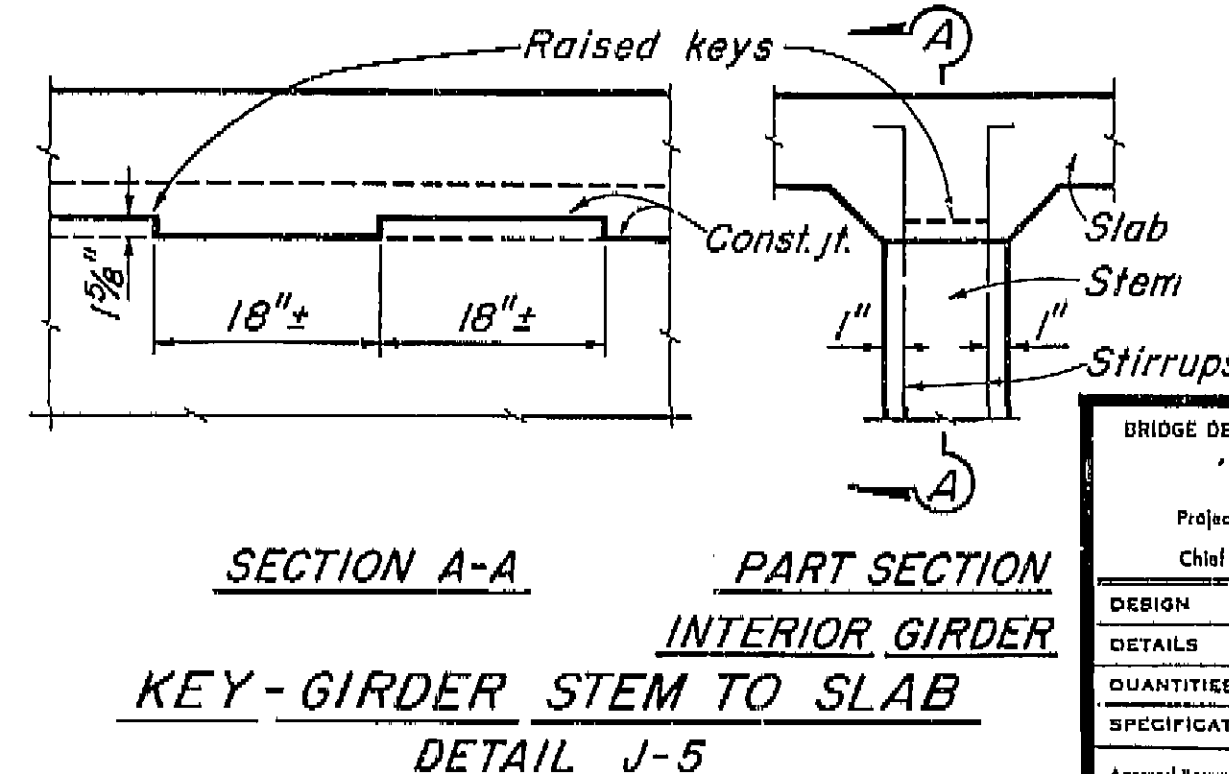
DETAIL M-1



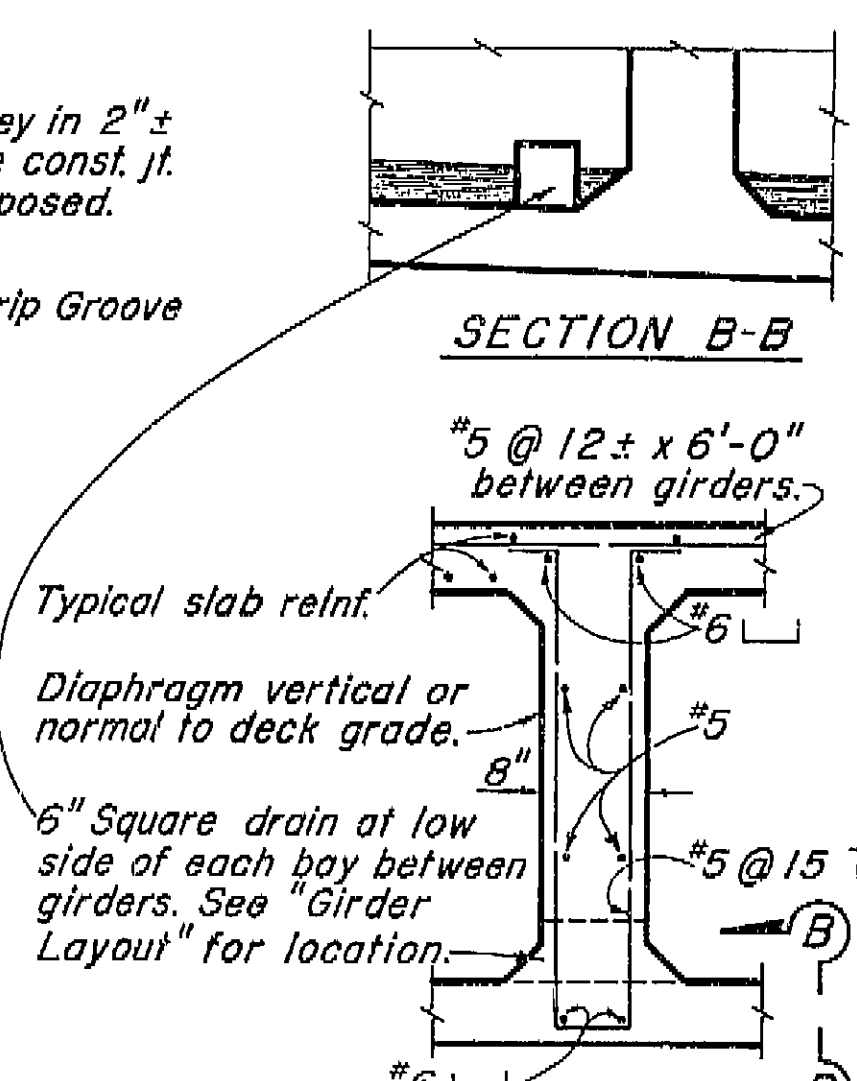
RECESSED SOFFIT LIGHT
DETAIL F-1



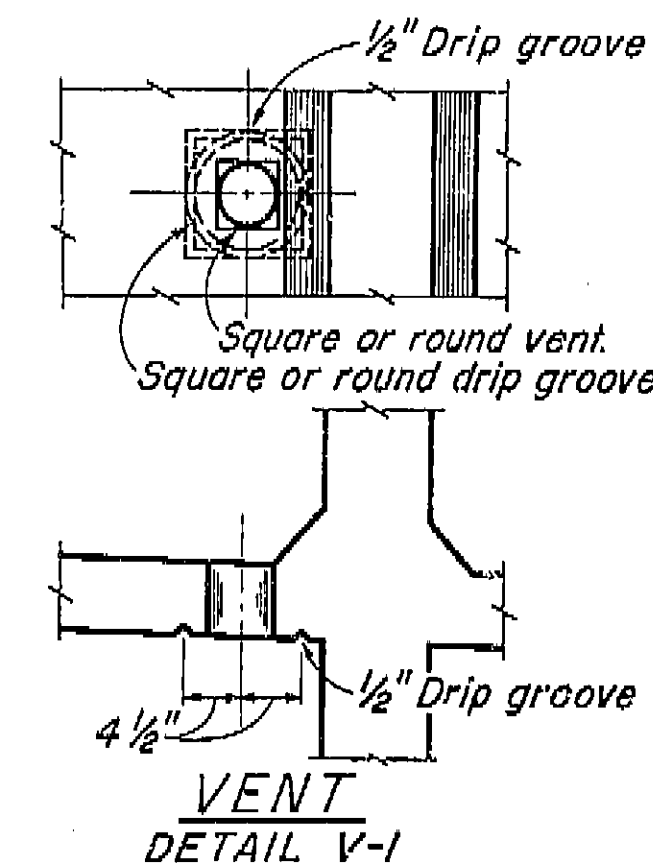
PART SECTIONS EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB



SECTION A-A KEY-GIRDER STEM TO SLAB
DETAIL J-5



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout".

BRIDGE DEPARTMENT DESIGN SECTION 2			
Project Designer	Chief Designer	Checked	Approved
DESIGN	DETAILS	QUANTITIES	SPECIFICATIONS
By E.E.	By E.E.	By E.E.	By E.E.
Checked LOR	Checked LOR	Checked LOR	Checked LOR
Approved	Approved	Approved	Approved

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

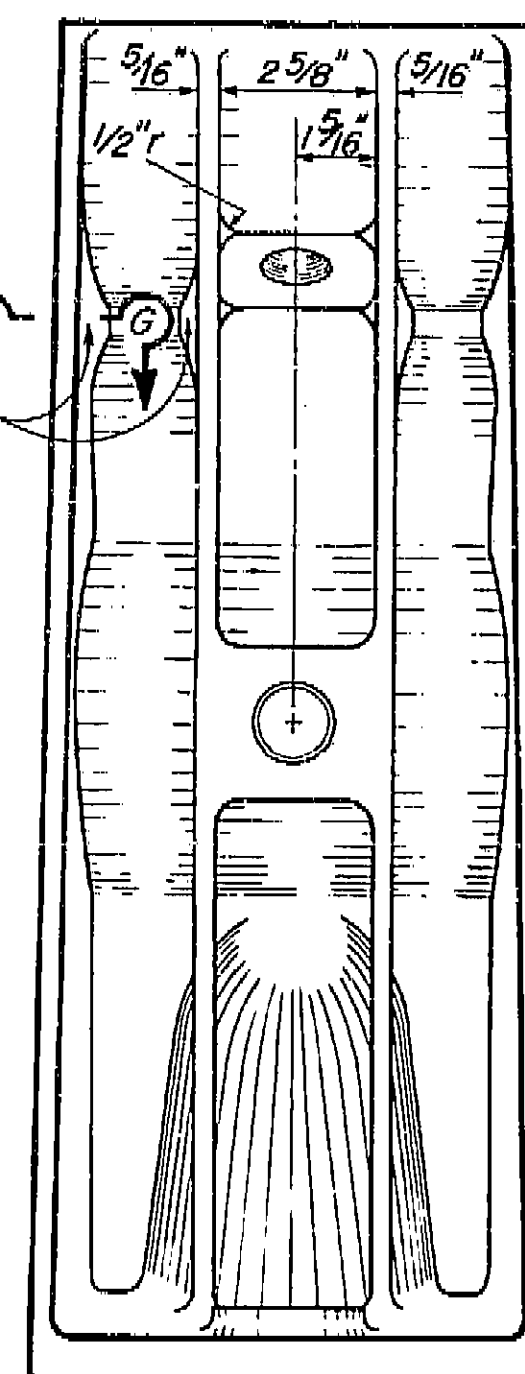
SCALE None BRIDGE 42-211 XS-16-22 FILE DRAWING C-6738-8 1

PREL. DRAWING No. P-6738 62 459

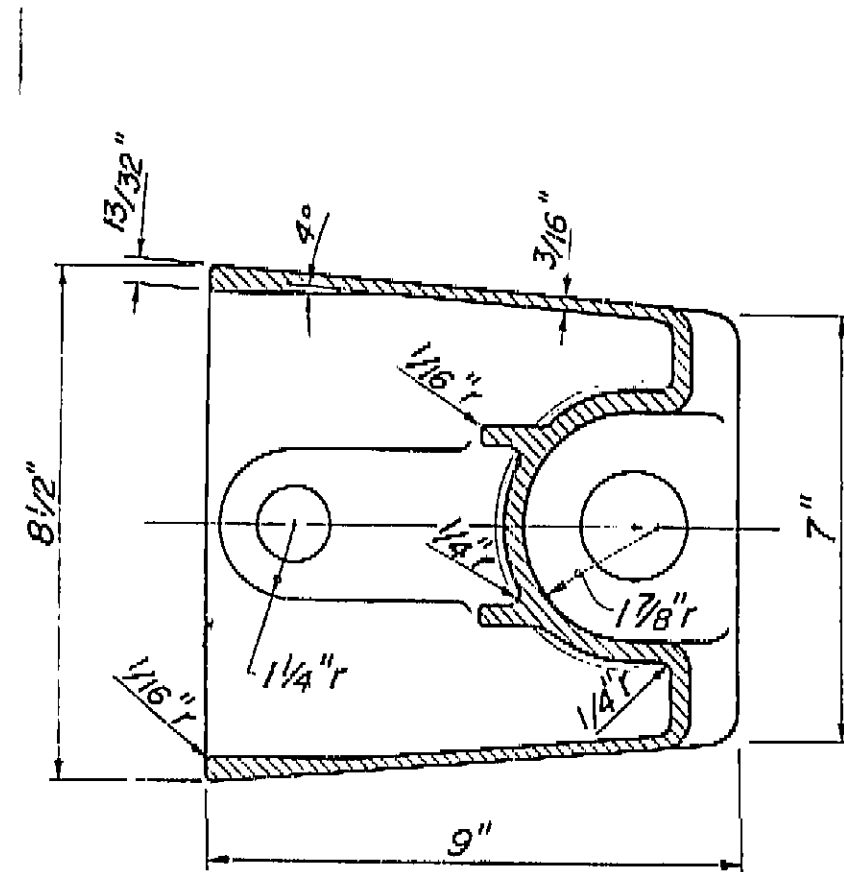
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 10/1/62 SIGNATURE TITLE

AS BUILT PLANS
Contract No. 62-6713C3
Date Completed _____
Document No. 60001062

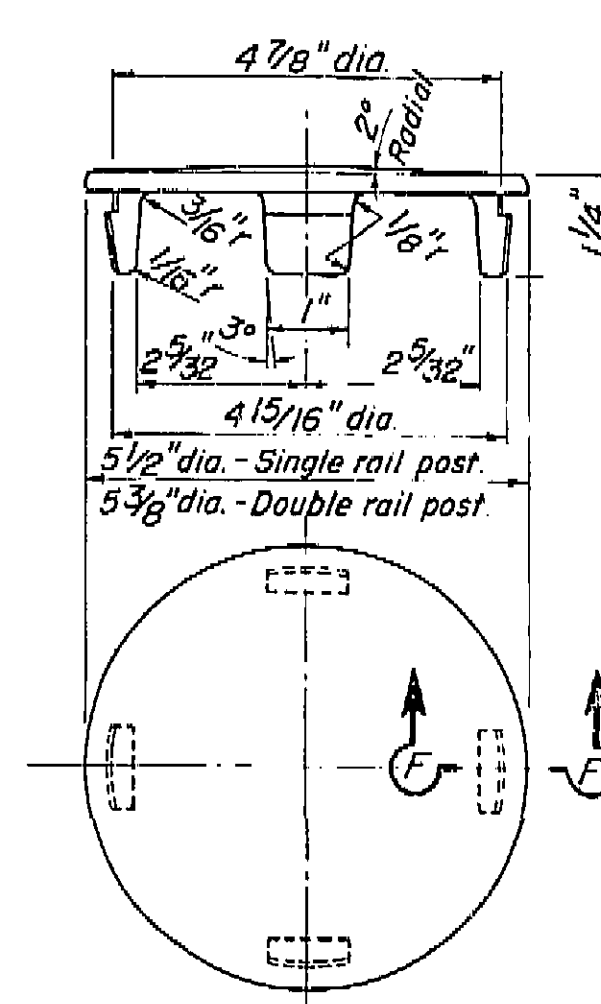
230
STAT - R
Address 1960
100 Langley Ave
W. F. Hend
P. J. Jurack 1960
6729



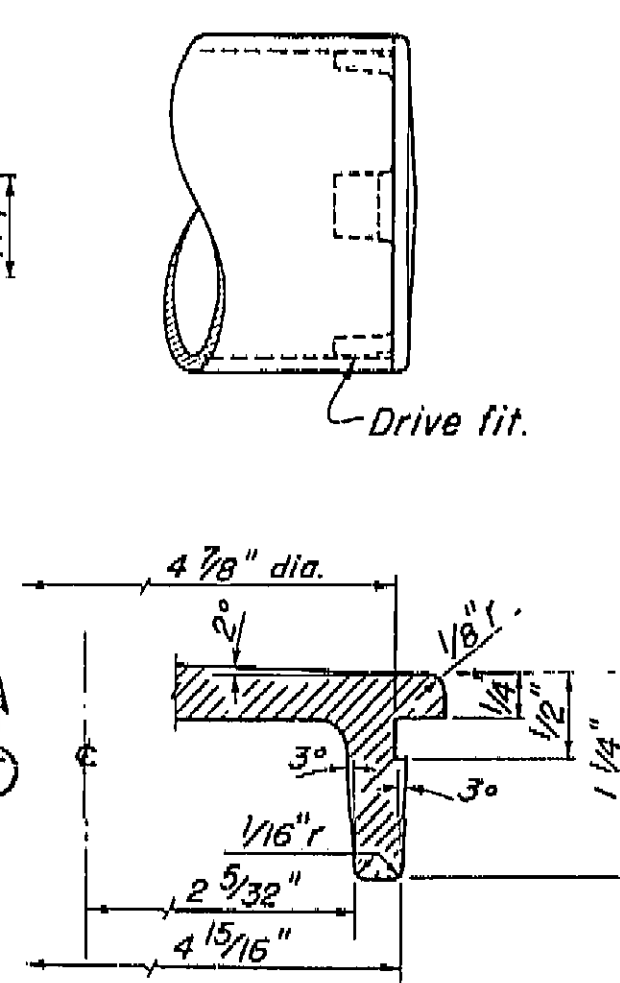
DOUBLE RAIL POST



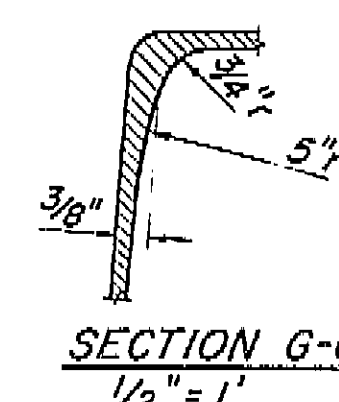
SECTION B-B



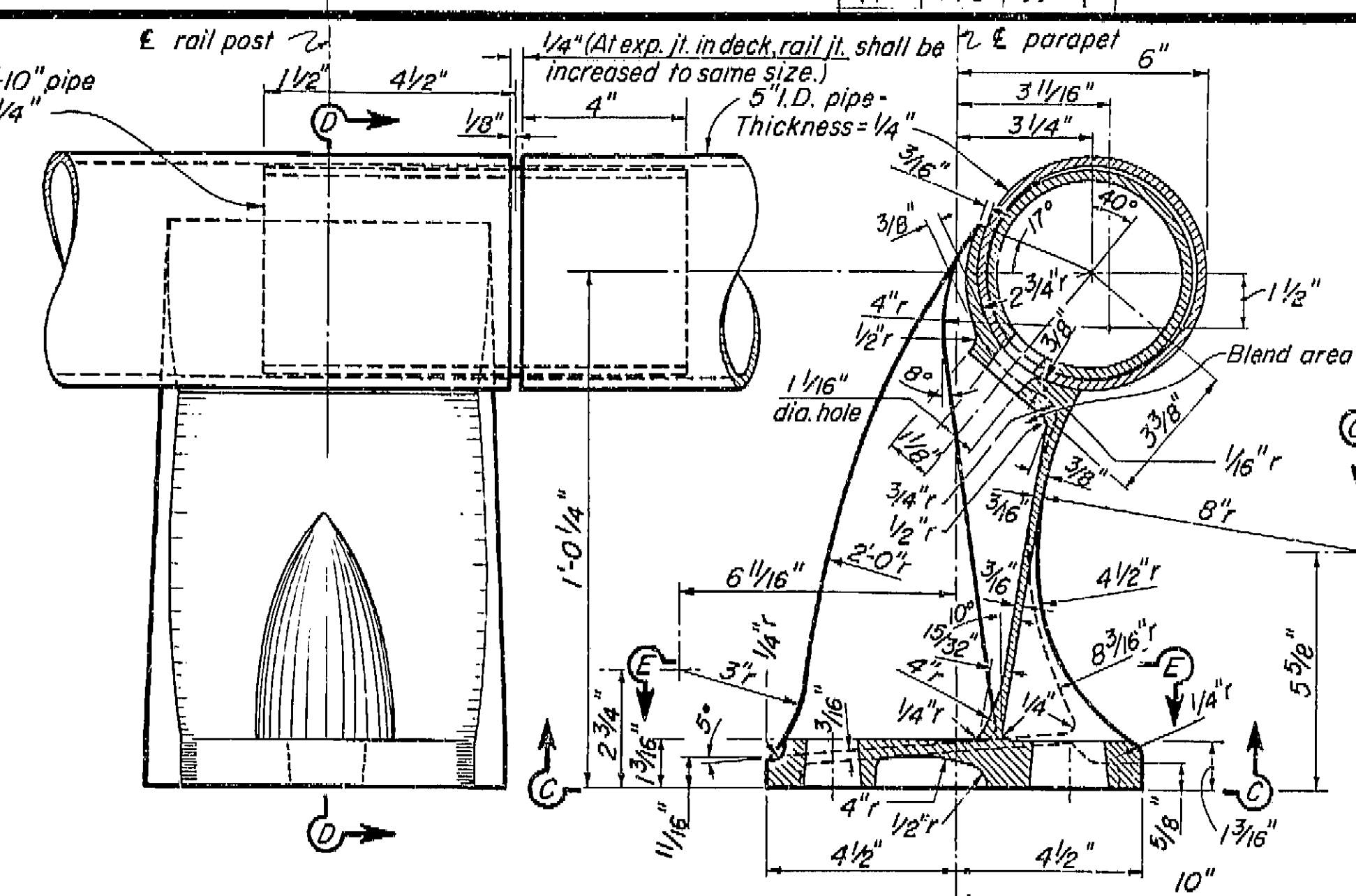
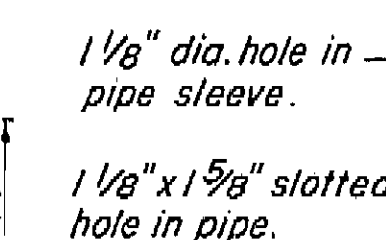
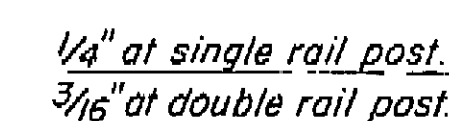
RAIL CAP
1/2" = 1"



SECTION F-F
1"=1"



SECTION G-G
1/2" = 1'

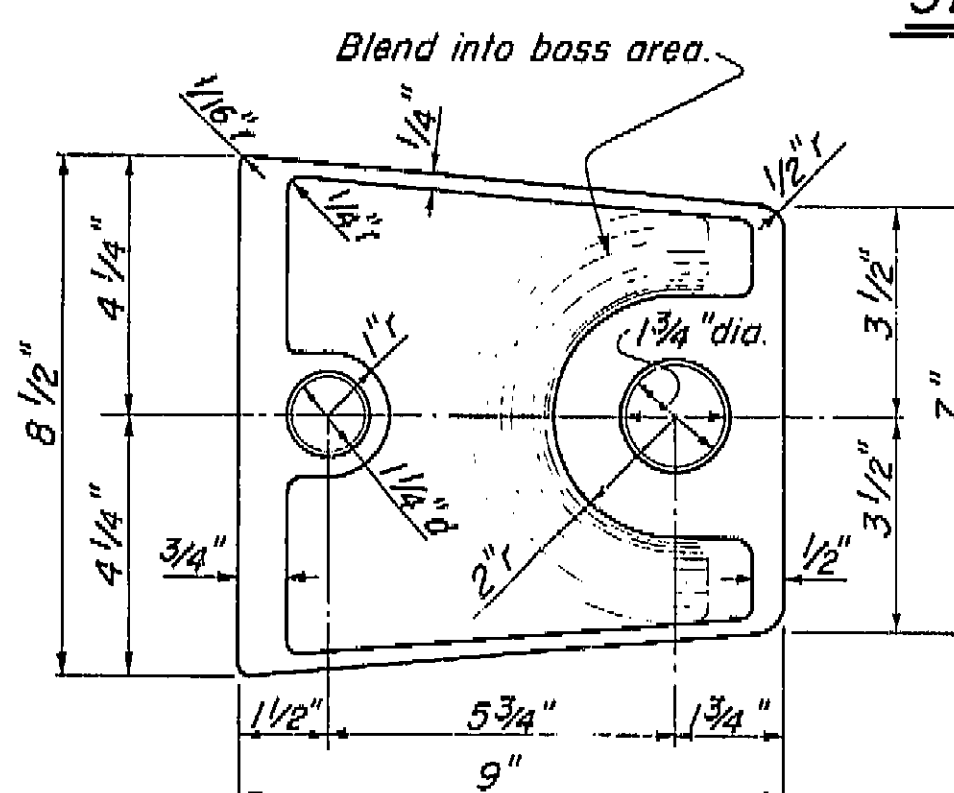


FRONT VIEW

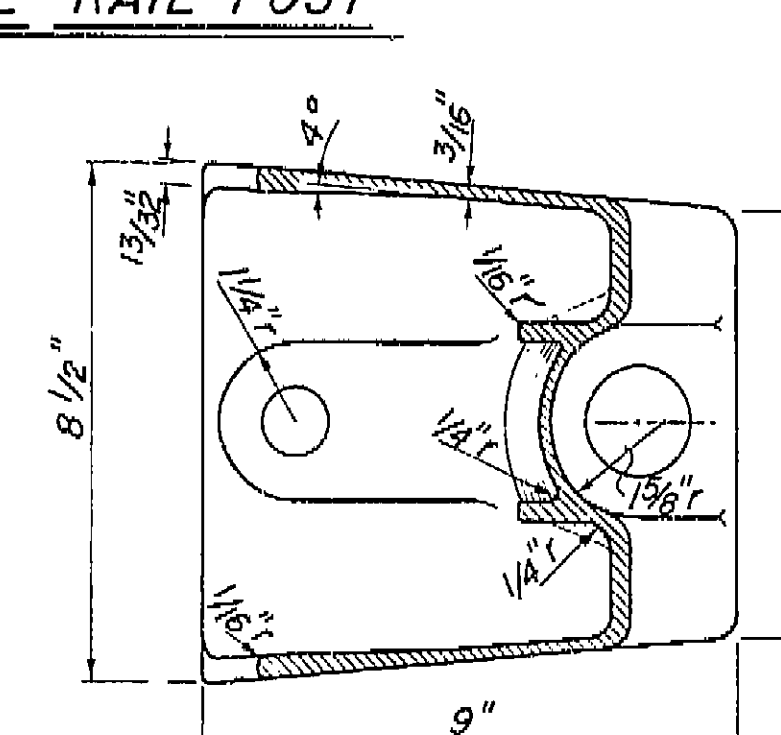
SECTION D-D

REAR VIEW

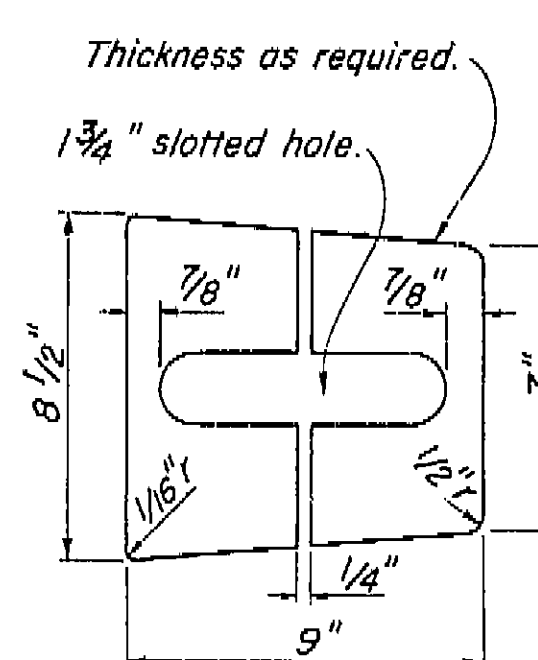
SINGLE RAIL POST



SECTION C-C



SECTION E-E



SHIM DETAIL

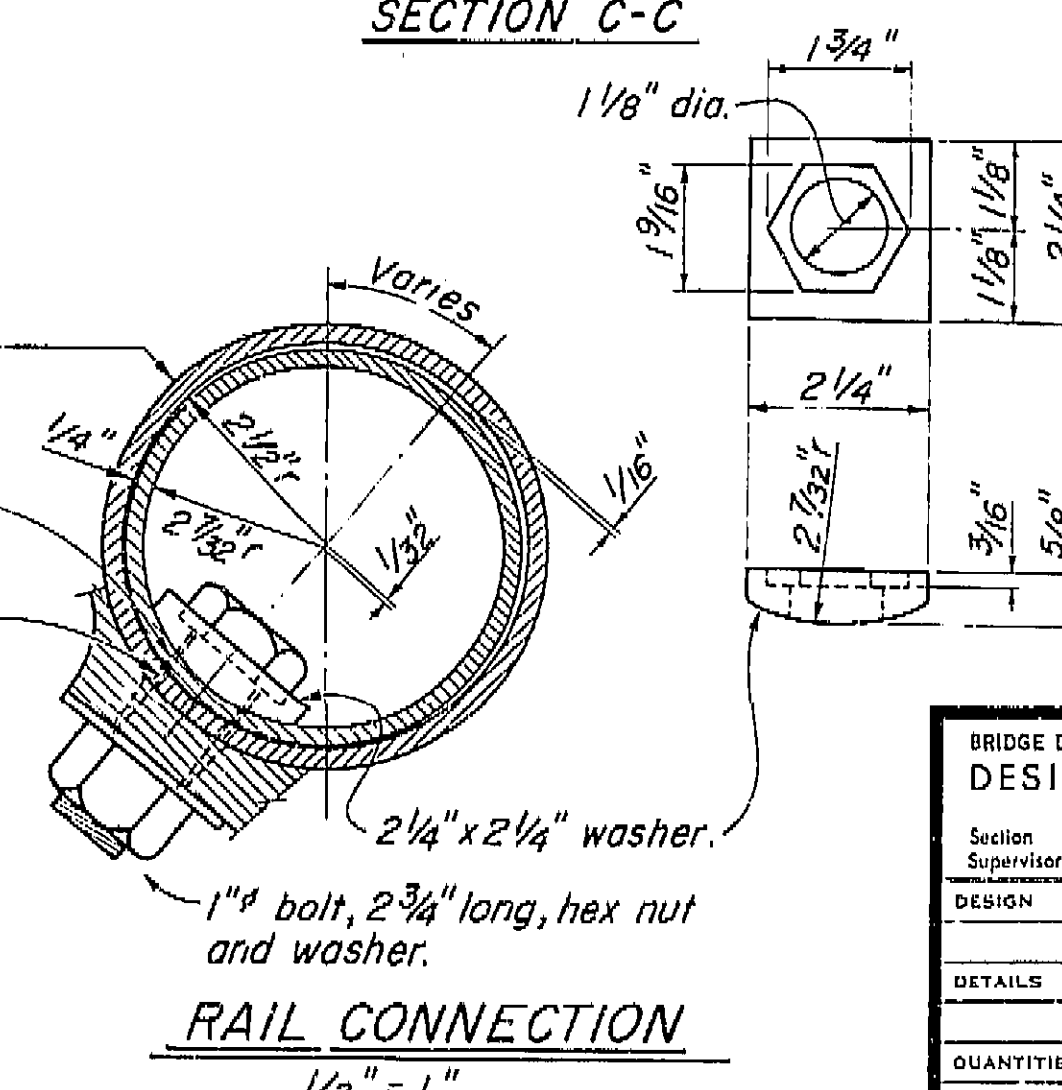
Thickness as required.

$1\frac{3}{4}$ " slotted hole.

$$V_A'' = I' - O''$$

Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
 - a. Aluminum pipe rail and cast aluminum post.
 - b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be $\frac{3}{16}$ " thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1'.



RAIL CONNECTION
1/2" - 1"

BRIDGE DEPARTMENT DESIGN SECTION <div style="text-align: right; font-size: 2em; font-weight: bold;">2</div>	11/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor: <i>[Signature]</i>		
DESIGN BY <i>LEE KATHAN</i> CHECKED <i>LOD</i>	ORANGE AVENUE OVERCROSSING <div style="font-size: 1.5em; font-weight: bold;">BARRIER RAILING SHEET 2</div>	
DETAILS BY <i>LEE</i> CHECKED <i>LOD</i>		
QUANTITIES BY <i>LEE</i> CHECKED <i>PEC</i>		
Scale $\frac{3}{8}'' = 1'$		BRIDGE 42-211
Except as noted FILE		XS 9-71 DRAWING C-6738-11

Discard prints bearing earlier numbers.

→ PREL. DRAWING No. P. 6738

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XS-9.7	1.1
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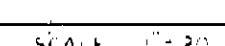
FILE	DRAWING	C-6758-11
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[illegible]

44

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



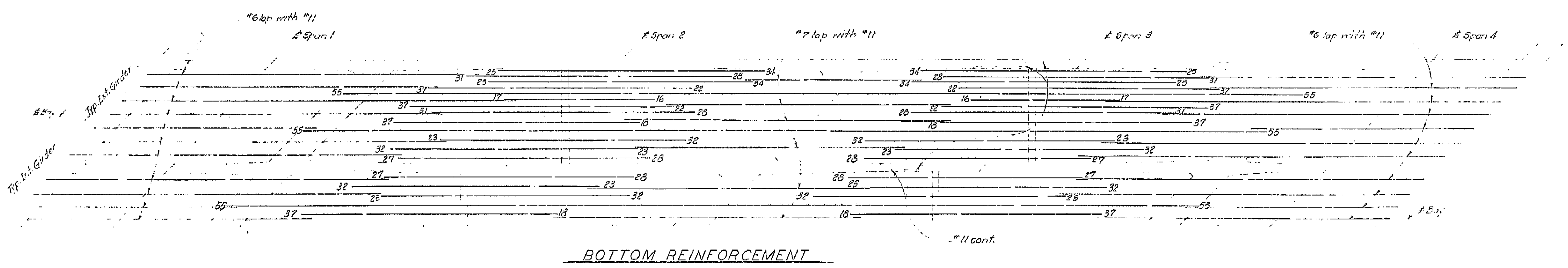
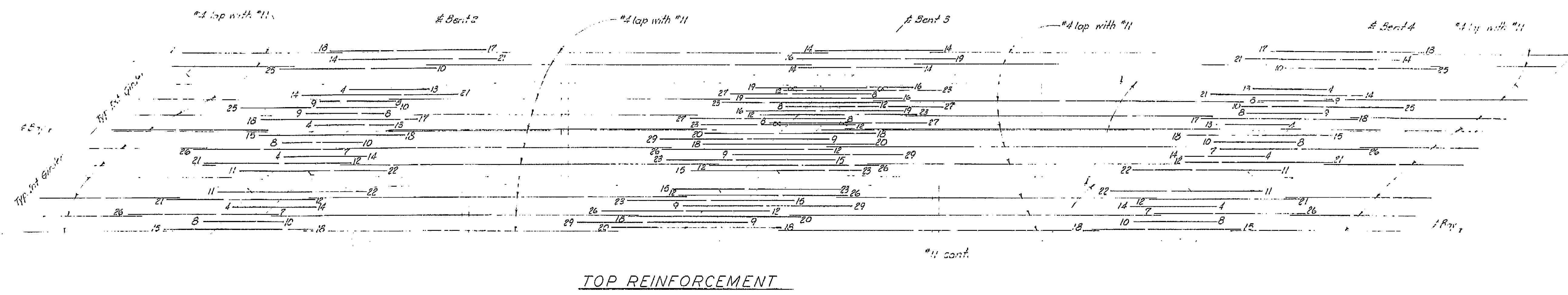
VI Fre 99

U-005-2(C)
F-005-2(C)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			226	228

DATE	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11/17/51	Fre	99		226	228

DATE APPROVED: August 28, 1951



AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

Notes:
All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from bent for Top Reinforcement or from span for Bottom Reinforcement.
No splicing of #11 bars permitted near bent in Top Reinforcement or near span in Bottom Reinforcement.
=0= Denotes bundled bars

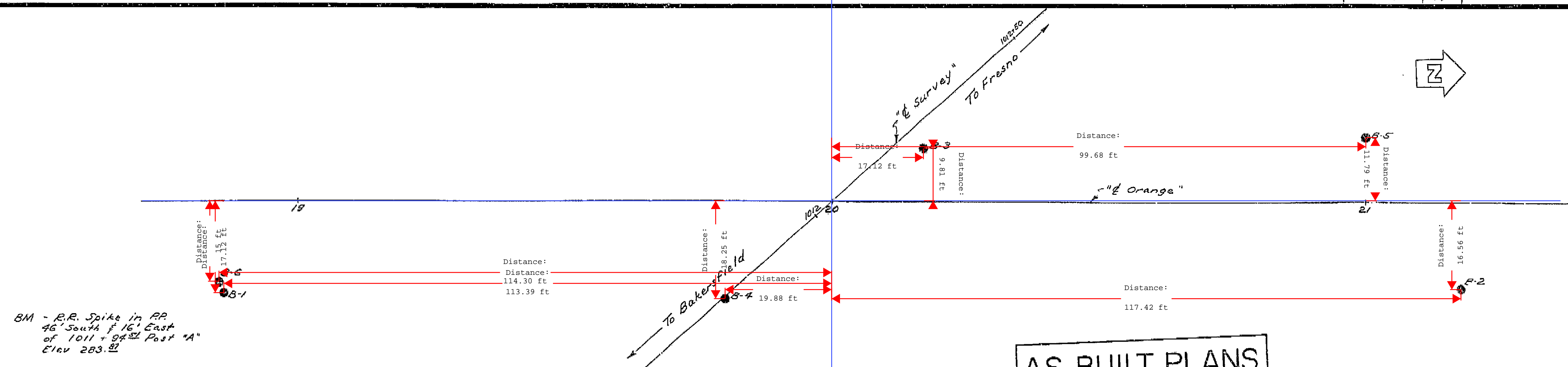
BRIDGE DEPARTMENT	
DESIGN SECTION	
Project Designer: <i>[Signature]</i>	
Chief Designer: <i>[Signature]</i>	
DESIGN	W. E. Lottman
DETAILS	L. D. Ricci
QUANTITIES	F. J. Ricci
SPECIFICATIONS	F. J. Ricci
Approved Recommended by: <i>[Signature]</i>	
Chief Engineer: <i>[Signature]</i>	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
ORANGE AVENUE OVERCROSSING	
GIRDER REINFORCEMENT	
SCALE: None	BRIDGE 42-211
FILE	DRAWING C-6738-7

PREL. DRAWING No. P-6738 61

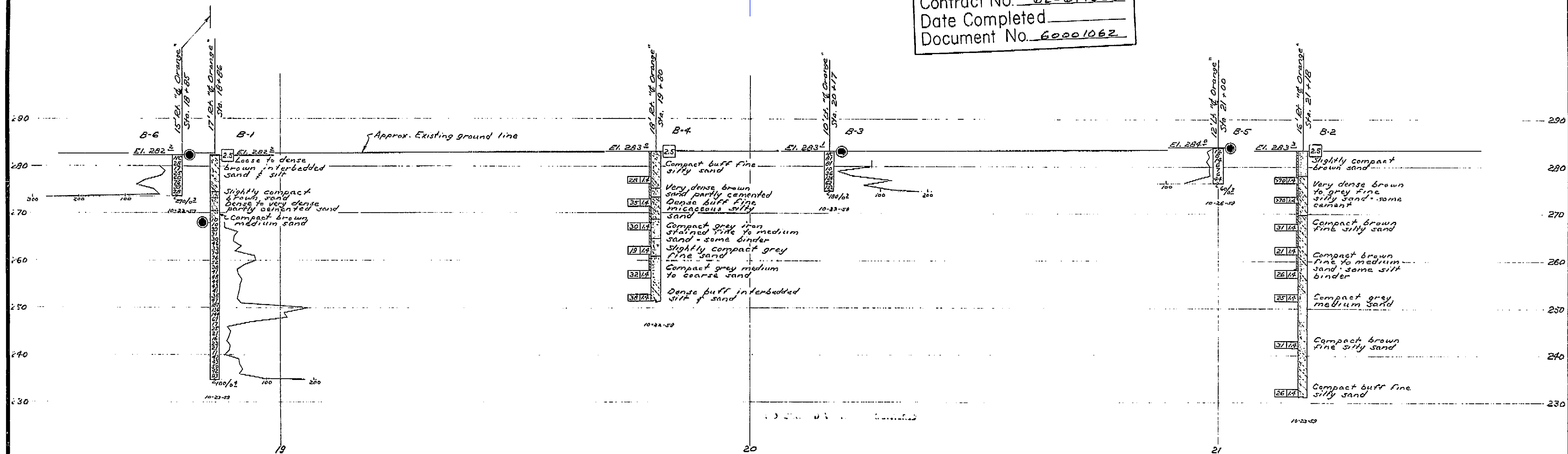
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-12-52 SIGNATURE *[Signature]* TITLE *[Title]*

DATE APPROVED August 28 1961



AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT



FIELD STUDY	10-15
DESIGNED	10-15
CHECKED	10-15
APPROVED	10-15

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2 1/4" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT

1" SOIL TUBE

ROTARY BORING

PENETRATION BORING

NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE 1" = 10' BRIDGE 42-211 FILE E-42 DRAWING 0-0130-12

PR-6738-4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 10-15-61 SIGNATURE [Signature] TITLE [Title]